

<210> 240
<211> 1117
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1113)
<223> n equals a,t,g, or c

<400> 240
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<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (2371)
<223> n equals a,t,g, or c

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<213> Homo sapiens

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<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3276)

<223> n equals a,t,g, or c

<400> 242

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<210> 243

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 243

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<210> 244

<211> 2311

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (236)

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<220>

<221> misc feature

<222> (983)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1471)

<223> n equals a,t,g, or c

<400> 244

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2311

<210> 245

<211> 4065

<212> DNA

<213> Homo sapiens

<400> 245

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 4065

```

<210> 246

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 246

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ggctccagga ctttggccat ctataaagct tggcaatgag aaataagaaa attctcaagg 120
aggacgagct cttgagtgag acccaacaag ctgcttttca ccaaattgca atggagcctt 180
tcgaaaatcaa tgttccaaag cccaagagga gaaatggggt gaacttctcc ctagtgtggt 240
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gtgcacgag gctgcaagtc ctgcaggccc aactcacctg ggtccgctc agccatgagc 480
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caggccccctc gggaccccaa ggcccaccgg gagtcaagg agaggcgggc ctccaaggac 720
cccagggtgc tccagggaag caaggagcca ctggcacccc aggacccaa ggagagaagg 780
gcagcaaaag cgatgggggt ctcatgggcc caaaagggga aactggaact aaggagaga 840

```

```

aaggagacct ggggtctccca ggaagcaaag gggacagggg catgaaagga gatgcagggg 900
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```

<210> 247

<211> 1486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1447)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1472)

<223> n equals a,t,g, or c

<400> 247

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ctggaaaccg gggccccgac ggttaccgg gggaaagcag gagtccagg gagcgaggag 720
accaaggcgg caagggggac cctggccgcc caggacgcag agggcccccg ggagaaatcg 780

```

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gggccaaggg aagcaagggg tatcaaggca acartggagc cccaggaagt cctgggtgtga 840
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gtctcamgam tgtgagaaag cgtgttgcg ccctggaagt ggtcttctgt cattcgacag 1440
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```

<210> 248

<211> 1994

<212> DNA

<213> Homo sapiens

<400> 248

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tgccccatct ccagccttgg ccaaccctgg ggaggggtcc tgagcaggca gacttagctt 180
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cayggcgagg gacccccgc accagtgcct cccgctcaac accccaaccc ctgcccacca 480
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cttggctggc ttgcaggggt cctaagaaac tccactctgg acagcgccag gaggccctgg 1860
gttccattcc taactctgcc tcaaaactgta catttgagta agccctagta gttccctggg 1920

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cctgttttttc tataaaacga ggcaactgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaaa aaag 1994

<210> 249

<211> 1661

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (810)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1633)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1648)

<223> n equals a,t,g, or c

<400> 249

tcattgatgc cagagtgcc aaccatccca tgcttgctgt ccccatggtc cgagtggagt 60
gactgcagcg tgacctgcgg gaagggcatg cgaacccgac agcggatctc aagtctctgg 120
cagaacttgg agactgcaat gaggatctgg agcaggtgga gaagtgcag ctccctgaat 180
gccccattga ctgtgagctc accgagtggc cccagtggtc ggaatgtaac aagtcagtgt 240
ggaaaggcca cgtgattcga acccgatga tccaaatgga gcctcagttt ggaggtgcac 300
cctgcccaga gactgtgcag cgaaaaaagt gccgcatccg aaaatgcctt cgaaatccat 360
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```

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ggctttttcc aaaacaattt ttggcttaaa gtccttggcc ccaaaagccc cccccccaaa 1620
tggaanttn cntttttaa ccaaaaantt cccaattctt t 1661

```

<210> 250

<211> 2358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<400> 250

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aggagaccgg gtgatggtgt tgaaccggtc agggatgtgg caggaagagg tgactgtgcc 120
ctcggtcacg accttcctga ttctgagggc catgaccttt gaggaagctg ctgccttgct 180
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cagtcccaca acactgccaa aaatctgtgt atgtgccatt gggtaggggca gcccgaagcc 1740
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```

<210> 251

<211> 697

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (667)

<223> n equals a,t,g, or c

<400> 251

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acgccgcgcg cacagagctc tcagcgccgc tcccagccac agcctcccgc gcctcgctca 120
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cacctcatgc agggccacc tgccaatagt aataaagcaa tgctactttt ttaaaacatg 600
aaaaaaaaaa aaaaaaaaaa ggggggcggt tarargatcc aagyttacgt accgcgtgca 660
tgcgacngtc atagcttttt ctataagtgg tcaccct 697

```

<210> 252

<211> 2958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2917)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2934)

<223> n equals a,t,g, or c

<400> 252

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catttagatc actcttaagc ctttgtggaa ttctgaggaa aaaaagcaag atgcctcaat 120
gccaatgctg ggccataaga ttctactccc ctccctgtag gktggggcgc gtggctcagc 180
tttgaaaaat ctttttgcca gtaatatgtc ctgtgaatcc ctttaagaag tcgtcctgat 240
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gttttaaatt cccgggcc                                     2958

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<210> 253

<211> 2527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2171)

<223> n equals a,t,g, or c

<400> 253

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aaaaaaaaa                                     2527

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<210> 254

<211> 1183

<212> DNA

<213> Homo sapiens

<400> 254

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ttttgcaaac aaacaggatt tgccaaatgc tatggccatc agtgaaatga cagataaaact 180
agggtctcag tctcttcgta acagaacatg gtatgttcaa gccacttgtg caacacaagg 240
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tagtttgat cttggttatt aaacagtatc tgggactggg ttgggcagaa tattaaactt 420
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gtaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggggg ggg                                     1183

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<210> 255

<211> 2051

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<400> 255

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ccctanaggg g 2051

<210> 256

<211> 686

<212> DNA

<213> Homo sapiens

<400> 256

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aaaaaaaaaa aaaaaaaaaa aaaaaa 686

<210> 257

<211> 2322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2319)

<223> n equals a,t,g, or c

<400> 257

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gtttgatgct gctgagcggg accagcaggg aggccttccc ctgatcgctc tggctggcaa 900
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<210> 258

<211> 2261

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2115)

<223> n equals a,t,g, or c

<400> 258

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aatattgcct tcaagattgt tcttacttac aagacttgct cctacttcta tgctgaaaat 120
tgacctgga tagaatacta taagggtttg agttagctgg aaaagtgatc agattaataa 180
atgtatattg gtagttgaat ttagcaaaga aatagagata atcatgatta tacctttatt 240
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ttgttacatt attttttctt atgtaatacc tttttgtttg tttatgtggt tcaaatatat 2100
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taactaaaaa ttactgaaaa gaataaaatt tatataatgt g 2261

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<210> 259

<211> 1374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 259

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atgtcattga aaatttgcat gcagcagctt accggaatgc cttggctaatt cccttgatt 360
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gagttgtaat actgatgcac acattacagg agagagctga acgttctctc agcccagagc 1200
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<210> 260

<211> 1958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1843)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1915)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<400> 260

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gaagcaaagg ctttggtga agaacagaaa cgtttaaatc ctgactgttg gaagaggraa 1560
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<210> 261

<211> 2952

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 261

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aaaaaaaaaa aa 2952

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<210> 262

<211> 1367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<400> 262

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aatgtggaca ttgccactgt ctaccagatc ttccctgacg aagtgcctggg ctcagggcag 180
tttgagtggt tctatggagg aaaacaccgg aagacaggcc gggacgtggc agttaaggtc 240
attgacaaaac tgcgcttccc taccaagcag gagagccagc tccggaatga agtggccatt 300
ctgcagagcc tgcggcatcc cgggatcgtg aacctggagt gcatgttcga gacgcctgag 360
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gagaagggcc ggctgcctga gcgcctcacc aagttcctca tcaccagat cctggtggct 480
ttgagacacc ttcaactcaa gaacattgtc cactgtgact tgaaaccaga aaacgtgttg 540
ctggcatcag cagacccatt tcctcagggtg aagctgtgtg actttggctt tgctcgcac 600

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<210> 263

<211> 2986

<212> DNA

<213> Homo sapiens

<400> 263

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caggtggaca tttctgatgc tcttagtgag cgggataaag taaaattcac tgttcacaca 180
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<210> 264

<211> 1027

<212> DNA

<213> Homo sapiens

<400> 264

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<210> 265

<211> 1561

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266

<211> 1586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1544)

<223> n equals a,t,g, or c

<400> 266

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gactggagaa gttaggcctc agacatccca agccttctcc tttcattgga aacttgacat 360
ttttccgcca gggtttttgg gaaagccaaa tggagctcag aaagctgtat ggacctctgt 420

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```

<210> 267

<211> 772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<400> 267

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```

<210> 268

<211> 2482

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<400> 268

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cagcagctcc agggccagct ggaggattat aaggaaaagg cccggcgga ggtggcagat 180
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tttatattga aaaaaaaaaa aa 2482

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<210> 269

<211> 2494

<212> DNA

<213> Homo sapiens

<400> 269

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<210> 270

<211> 1827

<212> DNA

<213> Homo sapiens

<400> 270

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aaaaaaaaaa aaaaaaaaaa aaaaaaa 1827

<210> 271

<211> 3726

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2586)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3523)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (3664)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3687)

<223> n equals a,t,g, or c

<400> 271

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<210> 272

<211> 656

<212> DNA

<213> Homo sapiens

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<222> (198)

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<210> 273
 <211> 1177
 <212> DNA
 <213> Homo sapiens

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<210> 274
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 <212> DNA
 <213> Homo sapiens
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 <223> n equals a,t,g, or c

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<210> 275
 <211> 2662
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 <213> Homo sapiens
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<210> 276

<211> 2554

<212> DNA

<213> Homo sapiens

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<222> (2529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2537)

<223> n equals a,t,g, or c

<400> 276

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<211> 1806
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> misc feature
<222> (1800)
<223> n equals a,t,g, or c

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<210> 278
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a g a g g c g g c g g c g g c t c a g g g g a a a c g a g g c t g c a g t g g t g g t a g t a g g a a g a t g t c g g g 180
c g a g g a c g a g c a a c a g g a g c a a a c t a t c g c t g a g g a c c t g g t c g t g a c c a a g t a t a a g a t 240
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g t c c c t t c g a g c c t g a c c t c t a c a a g t c t g a g a t g g a g g t c c a g g a t g c a g a g c t a a a g g 1320
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g t g g g t c c c a t c t c c c c a g c t t g c t g c t c c t g c c t c a t c c c c t t c c c a c c a a a c c c c a g a 1500
c t c t g t g a a g t g c a g t t c t t c t c c a c c t a g g a c c g c c a g c a g a g c g g g g g g a t c t c c c t g 1560
c c c c c a c c c c a g t t c c c c a a c c c a c t c c c t t c c a a c a a c a a c c a g c t c c a a c t g a c t c t g 1620
g t c t t g g g a g g t g a g g c t t c c c a a c c a c g g a a g a c t a c t t t a a a t g a a a a a a a g a a a t t g 1680
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<210> 279

<211> 2412

<212> DNA

<213> Homo sapiens

<400> 279

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<210> 280

<211> 3572

<212> DNA

<213> Homo sapiens

<400> 280

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<210> 281

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2355)

<223> n equals a,t,g, or c

<400> 281

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<210> 282

<211> 1587

<212> DNA

<213> Homo sapiens

<400> 282

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<210> 283

<211> 1973

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1581)

<223> n equals a,t,g, or c

<400> 283

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tcctgcttga actagtctgc tgtcctgtca aatgcattct tttatttaca tgtcccttaa 1920
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<210> 284

<211> 1062

<212> DNA

<213> Homo sapiens

<400> 284

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```

<210> 285

<211> 1419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<400> 285

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<210> 286

<211> 1958

<212> DNA

<213> Homo sapiens

<400> 286

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ccgccctagg ggttcccaag ttacgtacg ctgcatgg 1958

```

<210> 287

<211> 1230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<400> 287

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cctgtcactg ccttcctgtt gtgcagaggt ggagacagat acagggcagc caagtaactt 240
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<210> 288

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (781)

<223> n equals a,t,g, or c

<400> 288

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<210> 289
 <211> 3308
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (3255)
 <223> n equals a,t,g, or c

<220>
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 <222> (3269)
 <223> n equals a,t,g, or c

<220>
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 <222> (3282)
 <223> n equals a,t,g, or c

<400> 289
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<210> 290

<211> 2239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2238)

<223> n equals a,t,g, or c

<400> 290

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<210> 291

<211> 1516

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

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<400> 291
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<210> 292
 <211> 2209
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2128)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2160)
 <223> n equals a,t,g, or c

<400> 292
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<210> 293

<211> 2071

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

<400> 293

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<210> 294

<211> 1851

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1850)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1851)
 <223> n equals a,t,g, or c

<400> 294
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<210> 295
 <211> 2998
 <212> DNA
 <213> Homo sapiens

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 <222> (1)
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<222> (11)
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<220>
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 <222> (2977)
 <223> n equals a,t,g, or c

<220>
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 <222> (2981)
 <223> n equals a,t,g, or c

<400> 295
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<210> 296

<211> 1282

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1281)

<223> n equals a,t,g, or c

<400> 296

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tctgtgtcct ccgttcattc catggctggg agtcaactgat gctgcctctg ctttctgatg 900
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cttcaactgtg gctaaggggt ggggtgaggg gatggagagg gagggctgcc taccatggtc 1140
tggggcttga ggaagatgag tttgttgatt taaataaaga atttgtcatt tttgaaaaaa 1200
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaaa aaaaaanaa na 1282

```

<210> 297

<211> 678

<212> DNA

<213> Homo sapiens

<400> 297

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cggaattccc gggtcgaccc acgcgtccgg aggaaacaaa ccaccctctg ggggtagttt 60
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ataacattcc aatcactatt gtatatatgt gcatgtatatt tttaaattaa agatgtctag 180
ttgcttttta taagaccaag aaggagaaaa tccgacaacc tggaaagatt tttgttttca 240
ctgcttgtat gatgtttccc attcatacac ctataaatct ctaacaagag gccctttgaa 300
ctgccttgtg ttctgtgaga aacaaatatt tacttagagt ggaaggactg attgagaatg 360
ttccaatcca aatgaatgca tcacaactta caatgctgct cattgttgtg agtactatga 420
gattcaaat tttctaacat atggaaagcc ttttgtcctc caaagatgag tactagggat 480
catgtgttta aaaaaagaaa ggctacgatg actgggcaag aagaaagatg ggaaactgaa 540
taaagcagtt gatcagcatc attggaacat ggggacgagt gacggcagga ggaccacgag 600
gaaataccct caaaactaac ttgtttacaa caaataaag tattcactac caaaaaaaaa 660
aaaaaacct ctaaaaaa 678

```

<210> 298

<211> 1682

<212> DNA

<213> Homo sapiens

<400> 298

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ggcgcccccc ccctttgtcc agctgggaca cgaggccgcg ggctcctccc cctccccctcc 60
agcctctcca ccagccccctc cagtcaaccc tcatcgccgt gccccccag agctagagag 120
atggggcccc tgcgtggccc gaggggyaga gctgggcgtc acttcgcaag cgctctgccc 180
tgccggggcg cgggggtggg ctctggggaa gccggtgcgc cccccacgcc tccgctgcca 240
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tcgggggggtt cggcgctcgca ccttggggcc ccccgagcc gtgtaggggg cctcccatct 480
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cccacccccg ctccctggcc ctatccacac ctccaccccc accccaggat cgccatcttt 600
aggggagggc tgggaggggg tggttaggtgt tttagggcca ccgagctcaa acacaaggac 660
ccctcccccg cccacccagc ccagcccaaa ttgacctcca tgcttaggga aaaactcccc 720
ccaccactgc cccctcccc gaccaggcc aaagccaggg cagggtctccg ggtctcacct 780
gctcctagcc tcacccccct gccccgaaa accagactct cctcccaaac tagcctcagg 840
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aacctytgma accttcaaaa agattcatgg tttttaatts ctgcttttaa taacatttgt 1680
ta
1682

```

<210> 299

<211> 1594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1592)

<223> n equals a,t,g, or c

<400> 299

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gctcatgcct gtcacctag cactttggga ggccaaggca ggtggatcac ttgaggtcag 60
gagaccagcc cggccaacat ggtgaaaccc catctctact aaaaatacaa aaattagctg 120
gaaatcgctt gaacctggga ggtggaggtt ccagttagcc gagatcgtag cactgcactc 180
caacctgagc aacagagtga gacaccagct caaaaaaaat tttttaataa taataaaagt 240

```

```

cctattatttc aactgggttat gtacattatg gttgaaaggg aacggttttaa tccagtctca 300
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aaattacagt tacatttttcc tttckgtgat cttcagcata atttcccaga ggccccctttt 420
tcctccctat aggccatctt attaacagat tttaaaattt atagtaatga caaatgactt 480
atcagtgttc atcatctgaa agctaagtgg ttcgttcaat cacttttttca aagttgatag 540
tagattgcat ggtttcatkt ttcctcatat tggtttatta attctattta atcaaggaaa 600
ataacttcag attccataaa gtttcagttt atttttagtt tactactagg tgagatagca 660
cattacatac ttttactatc aaatattatt ttagcagctt cccatagtac caaatgattt 720
gattccctac tctcatttyt taaagcatat aaatattttat gggcttaaaa aggggggtttt 780
taaaaactga ggatatcagt aataaattgc agaataattt gcaaagcttt cttttggaaa 840
gcaaactttt gtgcctgcct atatgcaaag tattttatca gggacttgaa caaagacctc 900
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ggataaatta tttctatatt ctgtaaatct gagatttaat gtatatTTTt tttaaaaaaa 1500
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anaa 1594

```

<210> 300

<211> 1102

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1057)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1070)

<223> n equals a,t,g, or c

<400> 300

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gcccaccagg ctgcgcaaac ggccctccag ccagactaac cctccccat cctcctccag 60
ggtccgggac cctgttcaag aacgccgagc gaatgctacg ggtgcgcacc tggacaagct 120
ggaccagggc cgtctagtgg acctggtcaa cgccagcttc ggcaagaagc tcagggacga 180
ctacctggcc tcgctgcgcc cgcggtgca ctccatctac gtctccgagg ggtacaacgc 240
cgccgccatt ctgaccatgg agcccgtcct ggggggcacc ccgtacctgg acaaatttgt 300
ggtgagctcc arccgccagg gccaaaggctc cggccagatg ctgtgggagt gcctgcggcg 360
ggaccttcag acacttttct ggcgtctccg ggtcaccaac cccatcaatc cctggctact 420
caaacacagt gatggcagct tctccaacaa gcagtggatc ttcttctggt ttggcctggc 480
tgatatccgg tactcctatg agttgggtcaa ccacgccaaag ggactgccag actcctttca 540
caagccagct tctgacctag gcagctgacc ttcacctagg acactacagg ccctggaatg 600
gccaggggtg accaaaagcc atgccagctg ggcatgacct caggcagcca gccacaggct 660

```

```

gaagggggct tggtggctga gtgatctgca gaggagaaag cagccccagc tctgcccaga 720
ggaggcgctg aagtgggaca agcacaggaa agaaggggac cagtctagga ccccaacttg 780
actcactcta aagctacaac caaatggcct tcgattttca acctggggat taggggaggg 840
gagggtgcct tccagggctc tactcaggac taaccctaag ggtgagctag tttctgtgcc 900
tctgtgctat gttttgaggg tcccttacct aaaataatac ccctgcctgc gtgatattct 960
accattcatt ttaattcctt tgggtcttgc agtttttcag gargccttga ttaaaatgca 1020
aatacttgtc tgaaaattcc gcttacctt tgaaaaanaaa attaaaattn acccccttgg 1080
aaacaaaatt tttttttttt tt 1102

```

<210> 301

<211> 1089

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1073)

<223> n equals a,t,g, or c

<400> 301

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ccttttgccc ttttgtaaac tctgaagggt agtcagtgggt tttnttcaaa attgcattag 60
gaaattttccc aagggcatcc ttttaaggca gctgtctctg tacccttgga ggccatcagt 120
aaatgtttcc aatctatagc agaggtagtt atggaggagg tgatggtgga tataatggat 180
ttggaggtga tgggtggcaac tatggcgggt gtcctgggtta tagtagtaga gggggctatg 240
gtggtgggtg accaggatat ggaaaccaag gtggtggata tgggtggaggt ggaggatatg 300
atggttacaa tgaaggagga aattttggcg gtggttaacta tgggtgggtgt gggaactata 360
atgatttttg aaattatagt ggacaacagc aatcaaatta tggacccatg aaagggggca 420
gttttggttg aagaagctcg ggcagtccct atggtgggtg ttatggatct ggtgggtggaa 480
gtggtggata tggtagcaga aggttctaaa aacagcagaa aagggttgaa tgagaaccct 540
acttgcctaa atgaggaatg tctttcctac catctaaaat acgaagggtt ctggctgggt 600
aaggtttgta gttgacagta aaacctgatg acaccatttg tttccctgca agtctacatt 660
acataatttca caactttgtc cctctctagt aggcacattg gaaaaattct tcaactgaaa 720
actaccttgg taccatgtcc tacacgtttt aaaccttagt tttaaaaatt cccctgcgaa 780
atagccataa gtattcatat caagtcagtt gtgactcctt gtgtatacaa ttcatttttt 840
gtgtcttcag ggtaaactca attttttgta aagtggtttc agcttttgtg aaaaccgttt 900
ttgtgtgtaa gcatgacaca caacagactc agtaagctgc ccatcctcat actagggaaa 960
acaccttcaa agggaacatt aaaagttacc rgggcccrggc acatggctca cgcctgtaaw 1020
tcccmgcatt ttgggggggc tgngggcagt ggggttcccc aagggtccggg ggntttttga 1080
ggacgaggc 1089

```

<210> 302

<211> 1284

<212> DNA

<213> Homo sapiens

<400> 302

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ggccccattc cccgaatttt ggacacctct tgtggataaa tctccagggg agcgccatag 60
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tggctttgaa ggtgttccag ggtttaagtt ggaaagcccc ctttctgtgc ccaaraggwg 180
tctwaggamc agcttccacc catgrstgaa gacttccttc tggatgcttt gtctgaggac 240
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catctctgaa gtggtttccc aaaccccagc ttcaacgacc caagctggag cccacccccg 360
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aggacaaagg cagcctgacc cagatgagaa caaaccaatg gaagataaag taaaggaaaa 480
agctaaagct gaacatagag acaagcttgg agaaagagat gacactatcc cacctgaata 540
cagacatctc ctggatgata atggacagga caaacagtg aagccaccta caaagaaatc 600
agaggattca aagaaacctg cagatgacca agacccatt gatgctctct caggagatct 660
ggacagctgt cctccacta cagaaacctc acagaacaca gcaaaggata agtgcaagaa 720
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aacagaggaa acttccaagc caaaagatga ctaaagaaat acaagttaag gtatctggta 840
tctgcatgta aaatcttcag ctggtggatg gtgacttttg aagaacaaaa ggctttggca 900
acagaaaaca attgttctgg gtgatttcta gaatggtttt tgttgagtct ctgaacatcc 960
taaataattg tttgttatc tttccagaa agaaaatgaa tttgactggg tcacctgtgt 1020
actgagtatt gataaacttt gaattttttt aattgccttc aattgggaga gaaagcttta 1080
tatttgtaag aaatatattt gataaagttt cttaaagcaa caccaaaaaa acaaaagaaa 1140
agctaagtga atttttgcac attctacaca cagtgcctgt aaatctcatt tgtattttca 1200
gtttgccctt aatttttttt gttagtgttt agaaaacaat gttttaaaca ttaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aatt                                     1284

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<210> 303

<211> 1109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 303

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cagagccggg gccccggggc cgtnacagac gggcgaggaa gggagagagg cggcggcgac 60
accatgtcat ctcccagtcg gggcaagagg cggatggaca cggacgtggt caagctcatc 120
gagagtaaac atgaggttac gatcctggga ggacttaatg aattttagt gaagttttat 180
ggaccacaag gaacaccata tgaaggcgga gtatggaaaag ttagagtgga cctacctgat 240
aaataccctt tcaaactctc atctatagga ttcataaata aaattttcca tcccaacatt 300
gatgaagcgt caggaactgt gtgtctagat gtaattaatc aaacttgga agctctctat 360
gatcttacca atatatttga gtccttcctg cctcagttat tggcctatcc taaccccata 420

```



```

gatcctctca atggtgacgc tgcagccatg tacctccacc gaccagaaga atacaagcag 480
aaaattaaag agtacatcca gaaatacgcc acggaggagt ttttcttaca taatttgcaa 540
tttcaggaat ttaattttata ggcagatctt taaatacagt caacttacgg tgcacagtaa 600
tatgaaagcc acactttgaa ggtawtaaat acacagcntg cagactggga gttgctagca 660
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attckgactt mcttaaccag gtttgggatg gagatgggtc gcatcagctt tttgtattaa 780
caaagttact ggctctttgt gtgtctccag gtaactttgc ttgattaaac agcaaagcca 840
tattctaaat tcaactgttg atgcctgtcc cagtccaaat tgtctgtctg ctcttatttt 900
tgtaccatat tgctcttaaa aatcttggtt tggtagcagt cataattcac caaaagtcca 960
tataatttaa aaaaacacta aattagttta aaatgaagca atttatatct ttatgcaaaa 1020
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aaaaaaaaaa aaaaaaaaaa aattctgcg 1109

```

<210> 304

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 304

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ttcttctctc ataaagttaa ttattccttt tttttgtttt atgtaagtgt atatatctt 120
agtttttctt gaaatcattg taatgttaac tttgttggtt caaatatctt ggtgattgct 180
tcattatctc ttcaacaaaa aaaaccttta attttgccat tgaaactgta gaactatgcc 240
atgcttttat tagaagcagt gctctgtgtt aacaacaaga atgggtgtaat tagaattggg 300
atgtggatat ttactgtatg acaacacatt tacagttctg taatgcaagg atgcagttta 360
aaaatgtgaa gtagtgatgg tttttgaaat aagcttttaa atatagggat cttgaaggct 420
ccctggggta actattttat aacttagata aaatggctag tcatatctgt gtgtttgtaa 480
agttattttt ttaatatattt aagrttacia ttttaacaat gtagraatga gccaaacttt 540
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<210> 305

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (1979)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1990)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1995)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2001)
 <223> n equals a,t,g, or c

<400> 305
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 aatgaatttg actgggtcac ctgtgtactg agtattgata aactttgaat ttttttaatt 120
 gccttcaatt gggagagaaa gctttatatt tgtaagaaat atatttgata aagtttctta 180
 aagcaacacc aaaaaaacia aagaaaagct aagtgaattt ttgcacattc tacacacagt 240
 gcctgtaaat ctcatattgta ttttcagttt gcccttaatt ttttttgta gtgttttagaa 300
 aacaatgttt taaacattct tcagtgttct gatttcttat taccctctt cctcttgagg 360
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 tacattgggc acatatctcc tcttgggctg ctaataataa attaataaca ggtaacctgg 480
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 ttttaattag aaatatcttc gagacttggg tgtttgttaa taactaataa ctggagtaag 1680
 ctacaggatc taaagcagcc ctttttacag tctagttagg agagagaaaa taattgcaaa 1740
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 ggcaatattg tatctgttta gaaaatgggc ttttccaaaa gcaaacaaag ataggttcct 1860

cagggtgacca aaactgaaaa tcaatatatttc catgttttcat taatcaaggc ataaaaatata 1920
 attaaagcaa aatatttttac attaaaaaaa aaaaaaaaaa aagggcggcc gctcttaana 1980
 ggatcccaan ctttnccgta ncgccctcca ttgccaaag 2019

<210> 306

<211> 3317

<212> DNA

<213> Homo sapiens

<400> 306

ctgcaggtag cggtccggaa ttcccgggtc gaccacgcg tccgctgtga ggcaggcaga 60
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 catcccagac tctctgctga tccgaagaat cacaggaagg ctgattcacc ccaagagtgg 180
 ccgttcctac cagcaggagt tcaaccctcc aaaagagccc atgaaagatg acatcaccgg 240
 ggaacccttg atccgtcgat cagatgataa tgaaaaggcc ttgaaaatcc gcctgcaagc 300
 ctaccacact caaaccaccc cactcataga gtactacagg aaacggggga tccactccgc 360
 catcgatgca tcccagaccc ccgatgtcgt gttcgcaagc atcctagcag ccttctccaa 420
 agccacatcc tagtatcaga aggccaggcg agactgcaac actgctcatc accccgcggc 480
 gtgatccctg ctcttaggtg ctgggcagag gggaagggtg gtcagggtga ggatggtgag 540
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<222> (3089)

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<210> 311

<211> 1296

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 311

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tgaccagcac tgaagtctat ggggccttca cctgtcccat ccagaacatc agcttctcct 180
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cgcagctgga gcggcgctcg ggctacaagc tcttcctgga cgaccgcgac ctccctgccg 480
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```

```

tgctttcgga cgccttcctg agccggggcct ggtgcagcca cagcttcggg gagggcctgt 600
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<210> 312

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<400> 312

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gcctccagtt gtcagcccac ctgcagggtga aaacaaccga tgtccaactt caagcctttg 540
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ttcctgtgat tggggccatc gtggttggtc tctgccttat gggatatggg gtctataaaa 660

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```

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tccaagtgga atctcccggc ttcagctt 1348

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<210> 313

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 313

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tgtctcttat catgttggtg gaggtggccg cagccattgc tggctatgtg tttagagata 180
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accacactgc ttcgatcctg gacaggatgc aggcagattt taagtgcgtg ggggctgcta 300
actacacaga ttgggagaaa atcccttcca tgtcgaagaa ccgagtcctc gactcctgct 360
gcattaatgt tactgtgggc ttgggttaat tcaacgaana aagcgatcca taa 413

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<210> 314

<211> 1743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1738)

<223> n equals a,t,g, or c

<400> 314

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aagatgcagg gcacccactg gaaacacaga cggcactctg cgaaagagga aggggcgcca 120
ggagcttggg tgagcaaggt tggaggtgat tctgccctc tcccaggct ttctgtatta 180

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gaaaactgaa gcttcaagaa cagacttgcc taacaacagg aaacttgat gtctcgaagt 240
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tcatggtttt actgaagttg ctagaagttt acagaaaagg aagtcagga acatttcaca 360
aatctacaat ctgtgagtat cacatcctgt atagctgtaa aacttggaat aaggaagggc 420
tgatgacttt cagaagatga aggtaagtag aaaccgttga tgggactgag aaaccagagt 480
taaaacctct ttggagcttc tgaggactca gctggaacca acgggcacag ttggcaacac 540
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aacygcactg ctgactctgt aggacaggag agagaataaa gccacgttcc aactgcctaa 1680
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tta

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<210> 315

<211> 2044

<212> DNA

<213> Homo sapiens

<400> 315

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atggcgctat ccgggtcgac cccggccccg tgctgggagg aggatgagt cctggactac 180
tacgggatgc tgtcgcttca ccgtatgttc gaggtggtgg gcgggcaact gaccgagtgc 240
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<210> 316

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (784)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1491)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1732)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1734)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1746)
 <223> n equals a,t,g, or c

<400> 316
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<210> 317
 <211> 2383
 <212> DNA
 <213> Homo sapiens

<400> 317
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<210> 318

<211> 1061

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<400> 318

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<210> 319

<211> 2372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1048)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<400> 319

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gaccgcgcaa tccggtatgg acgactggaa gccagcccc ctcatcaagc cctttggggc 180
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ccggcggggtc ctggacgtag aggtgtattc aagtcgcagc aaagtatatg tggcagtgga 480
tggcaccacg gtgctggagg atgaggcccc ggagcagggc cggggcatcc atgtcattgt 540
cctcaaccwg gccacgggcc acgtgatggc aaaacgtgtg tttgacacgt actcacctca 600

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tgaggatgag gccatggtgc tattcctcaa catggtagcg cccggccgar tgctcatctg 660
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cagagaccct tagacactgg accaggcctc ctctcagcct tctctttgtc cagatttcca 2280
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 2372

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<210> 320

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<400> 320

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ccccttacga gtgoggcttc gaccctatat ccccgcccg cgtcccttc tccataaaat 180
tcttcttagt agctattacc ttcttattat ttgatctaga aattgccctc cttttacccc 240
taccatgagc cctacaaaca actaacctgc cactaatagt tatgtcatcc ctcttattaa 300
tcatcatcct agccctaagt ctggcctatg agtgactaca aaaaggatta gactgaaccg 360
aatnaaaaaa aaaaaaaaaa aaactcgrgg gggggccngg taccatycs ccctaaaggg 420
aagnggatta caattcac

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438

<210> 321

<211> 2895

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 321

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atgacaacaa ccactggcag acagccccgt tctggaacct gggatctttc tgtgcttgca 180
cgagttctaa caataacacc tactggtggt tgcgtacagt taatgagacg cataattttc 240
ttttctgtga gtttgctact ggctttttgg agtattttga tatgaatata gatccttatc 300
agctcacaaa tacagtgcac acggtagaac gaggcatttt gaatcagcta cacgtacaac 360
taatggagct cagaagctgt caaggatata agcagtgcac cccaagacct aagaatcttg 420
atgttggaag taaagatgga ggaagctatg acctacacag aggacagtta tgggcatgga 480
tgggaagggt aatcagcccc gtctcactgc agacatcaac tggcaaggcc tagaggagct 540
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ctggactaat tacttgaagg atttagatag agtatttgca ctgctgaaga gtcactatga 660
gcaaaataaa acaataaaga ctcaaactgc tcaaagtgc gggttcttgg ttgtctctgc 720
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gcatgtgttt tacctcgact tgctaaaatc gattagcaga aaggcatggc taataatggt 1980
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<210> 322

<211> 1175

<212> DNA

<213> Homo sapiens

<400> 322

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<210> 323

<211> 3578

<212> DNA

<213> Homo sapiens

<220>
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 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3552)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3557)
 <223> n equals a,t,g, or c

<400> 323
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<210> 324

<211> 1715

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 324

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gtgcctccag tgccctggag gctggaggtt cctcaggctt ggaggatgtg ctgccccctc 360
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<210> 325

<211> 1688

<212> DNA

<213> Homo sapiens

<400> 325

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gctggcgagc cgacgcggcg gcggaggagg ctgtgaggag tgtgtggaac aggaccggg 180
acagaggaac catggctccg cagaacctga gcacctttt cctgttgctg ctataacctca 240
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tgtcagatag tgagaaacgg aaacagtagc atacttatgg tgaagaagga ttaaaagatg 480
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atctgcaagg tttttttgtg tgtgtttttg tttttatttt caatatgcaa gttaggctta 1380

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gtctggtgct gccgcctgag tttcaagaat taaagctgca agaggactcc aggagcaaaa 1560
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aaaaaaaaa 1688

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<210> 326

<211> 1632

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1540)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 326

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tcggcgcggc ctgagcgccc ggcccgaacc cggccatggg gtgctgctac agcagcgaga 180
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gctcttctcc tctcttctac ccatctctac cccacccctc tggccccag cctcactgcg 720
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```

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<210> 327

<211> 2222

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2215)

<223> n equals a,t,g, or c

<400> 327

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cagccatctg gtggtgcccc tcctgctcct ggtcagcctg ggctcggccc tggcctgtct 120
cacccacaca ccctccttca tgctcatcct aagaggagtg aagaaagaag acaagacttt 180
ggctgtgggc atccagttca tgttcctgag gattttggcc tggatgcccc gccccgtgat 240
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tgtctgtcgc tactacaata atgacctgct ccgaaacccg ttcacggccc tccagttctt 360
cttcaaaaca ggttctgtga tctgcttcgc cttagttttg gctgtcctga ggcagcagga 420
caaagaggca aggaccaaag agagcagatc cagccctgcc gtagagcagc aattgctagt 480
gtcggggcca gggaagaagc cagaggattc ccgagtgtga gctgtcttgg ggccccacct 540

```



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ggccaagagt agcagccaca gcagtacctc ctctgagtcc tttgccaag attgggtgtc 600
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attgatacctc tctcagcctt tgcttgctag tctgaaccaa agagtgtttt gggcatttgc 720
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tatattcctt catccctctt gtttcccagg ttttgcaggg aaaaaagtc tggaattata 2160
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gg 2222

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<210> 328

<211> 2167

<212> DNA

<213> Homo sapiens

<400> 328

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ggtgacgaaa gccacagagg aggacaaagc caagaactac gaggaggcgc tgcggctgta 180
ccagcatgcg gtggagtact tcctccacgc tatcaagtat gaggccaca gcgacaaggc 240
caaggagagc attcgagcca agtgcggtgca gtacctagac cgggcccaga agctgaagga 300
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gctgatgggt gccgtcgtga tggagaagcc caacatacgg tggaacgacg tggccgggct 480
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gaaatcctac ctggccaaag ccgtggcaac agaggccaac aactccacct tcttctctgt 660
gtcctcctca gatctgatgt ccaagtggct gggggagagt gaaaagctgg tcaagaacct 720
gtttgagctg gccaggcagc acaagccctc catcatcttc atcgatgagg tggattccct 780
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ggtccagatg cagggggtgg ggaataacaa tgatgggact ctggttcttg gagccacaaa 900

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catcccatgg gtgttggtt cggccatcag gaggagggttt gaaaaacgaa tttatatccc 960
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aaaaaaa 2167

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<210> 329

<211> 2373

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<400> 329

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cccgaagagn cctgctctca tgattggggc ctgctggact gaggagaaga acaaagagaa 120
ggaaaagggg agacaacagt acagacacca cccaaggaga ccctttgtcg atccaccact 180
acttccatgg ctacctggct ggtttcagcg tgcgctcagg tcgcctggag agccgcgagg 240
tcatcgagtg cctctatgca tgtcgggagg ggctggacta tagggatttc gagagcctgg 300
gcaaaggcat gaaggccac gtgaaccctt cacagtccct gctcaccctg gagggggatg 360
atgtggagac cttcaaccat gccctgcagc atgtggctta catgaacact ctgcgctttg 420
ccacgcccgg cgtcaggccc ctgcgcctca ccactgctgt caagtgcctc agcgaagagt 480
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acagcatgaa cggggttgcc caccacagcc acgtgctcag ctcccagcag ttcctgcacc 1080
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<210> 330

<211> 1369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1358)

<223> n equals a,t,g, or c

<400> 330

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tatttgtgtc acagctcagc tttttggaag acaaactcaa acacctataa tttcatttat 180
atttctaatt cacttggaac ctttctgctt tatgttacct agaaaatgat aatttgtgta 240
acccaaaact tctaaaataa attgcttaat ccttgaaata tgttattgga aaattttaag 300
cagtgcctaa acaccattaa attattatga acttgtaatt cagaattgag taaagaaata 360
ttttttctag tccttcatat attgaaaact tgccacatga cattgtatcg tcttcatttt 420
ccagaagatg cgttggtgtg ccatagggtt ctaacttcct tgaaaatagt tttttaagtc 480
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acaatataga gattttgkaa taccttataa gkkggagktg ctaaaawacc ytatccatat 600
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aaaaataatt cttttaagaa aaaatgtaaa aatgtttatt ctaaaaagct gcattaaagg 780
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gttaggggtgt tttatgctct tgaactaatt tataacatat ttaatatatt accagttaag 1140
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atatatttgc cggttatcca tatcytttag aagtcctgac agaacaacca gtttatttgc 1260
cataggtagc ttctgttttg aaggaaggta aagttataag gaaacttcaa atactattaa 1320
ganggtggnn aagggaattt ctncaggaat ttaattgnaa aaagcttag 1369
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<210> 331

<211> 2864

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2850)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2858)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2860)

<223> n equals a,t,g, or c

<400> 331

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ccgctgttcc tgctgtgct gctgctgctg ctgcagtgtc ctgggcgtcc cgaggcgagg 120
```

```

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<210> 332

<211> 1985

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 <222> (166)
 <223> n equals a,t,g, or c

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<210> 334

<211> 898

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (849)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 334

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<211> 944

<212> DNA

<213> Homo sapiens

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<210> 336
 <211> 1607
 <212> DNA
 <213> Homo sapiens

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<220>
 <221> misc feature
 <222> (1449)

<223> n equals a,t,g, or c

<400> 336

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<210> 337

<211> 3156

<212> DNA

<213> Homo sapiens

<400> 337

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<210> 338

<211> 1015

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (958)

<223> n equals a,t,g, or c

<400> 338

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<210> 339

<211> 2088

<212> DNA

<213> Homo sapiens

<400> 339

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<210> 340

<211> 3124

<212> DNA

<213> Homo sapiens

<400> 340

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<210> 341
<211> 245
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

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ccagggtgctg aagggcctga ccatcactca ttaagaacag aggaggtgct ctgttactcc 180
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ctagg                                             245

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<210> 342
<211> 5668
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 343

<211> 814

<212> DNA

<213> Homo sapiens

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<222> (659)

<223> n equals a,t,g, or c

<220>

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 gtggaatttg aaacaaaaga acaagcagca aaagcaattg aggtaagtcc agatcctann 660
 aaaaaaaaaa gaaagaaaag aaaacaagta ttaaaatagt aacttttgca atcatttcag 720
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<220>
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 <223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (858)
 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (2564)
 <223> n equals a,t,g, or c

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<210> 346

<211> 3770

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 346

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<210> 347

<211> 2358

<212> DNA

<213> Homo sapiens

<400> 347

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<210> 348

<211> 2044

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 348

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ggtgcatagg tctctcggac ccactctctg ccttcacagt tgttcaaagc tgagtggagg 1980
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tgta

2044

<210> 349

<211> 793

<212> DNA

<213> Homo sapiens

<400> 349

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cctgtgcaca agttggtacc aacaaagagc tctgtctgct cgtctataacc tcctggcaga 180
ttccacaaaa gttcatagtt gactattctg aaaccagccc ccagtgtccc aagccagggtg 240
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ttcaactctt cgtacattca atgcatggat caatcagtggt gattagcttt ctacgcagac 660
attgtgccat atgtatcaaa tgacaaatct ttattgaatg gttttgctca gcaccacctt 720
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aaaaaaaaaa aaa 793
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<210> 350

<211> 1058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1034)

<223> n equals a,t,g, or c

<400> 350

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agtatgtgcc ctgggtcacc gtcaatggga aacccttgga agatcagacc cagctcctta 720
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aaaaaaaaa tcnnnggggg gcccgtacc caattggc 1058
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<210> 351

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

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<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<400> 351

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ccgggtcgac ccacgcgtcc gctgcctcca ctgggcctca gttcctcatc actgttcctg 120
tgctcacagt catcaattat agaccccaca acatgcgccc tgaagacaga atgttcata 180
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tcagagctgt gatcttgaga gccctctcct tggctttcct gctgagtctc cgaggagctg 240
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<210> 352

<211> 3170

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3163)

<223> n equals a,t,g, or c

<400> 352

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<210> 353

<211> 3013

<212> DNA

<213> Homo sapiens

<400> 353

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<210> 354

<211> 1829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<220>
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 <222> (1777)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

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 <221> misc feature
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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1824)
 <223> n equals a,t,g, or c

<400> 354
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<210> 355

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (990)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1641)

<223> n equals a,t,g, or c

<400> 355

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ataaatgtag aaaaagttat tgtgattcca tggtagtgga aactcccata cacttctctt 720
tccctttctc tttctctttt cctctcttct ttttcttgat tcctctgtct ctctatcatt 780
ggctttcccc ttgtaccctt ggcagacctg attgacagg gtgacaattc ccatggcaag 840
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accacactta aatacagtag ttaacgttta agcaccaca ggttggttct ctttgtactt 960
gaatcaacaa ccattttcag ctcttagaan ggaccacca caaaactgna ctttttgact 1020
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cccaaaaacc mcaaaaytaa attatcgcta aattatcgac ccaaggaggc atggttaggc 1140
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gaactatcaa acagacaatg ataaataatg atcattttaa cttggccttt taaaaagcac 1380
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tactgacatc tatggtgtat gccatgtgat gatttcta at tggcaagtga acctcagagg 1560
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<210> 356

<211> 2020

<212> DNA

<213> Homo sapiens

<400> 356

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caaaatacag cacaatggga attgtcagct gaatgaagaa aacctctcta ccaaaacaga 180
agcagtatag gaccgacaag tgtacctctg cactcaatgc tggaatcaaa tccaaagctt 240
ttaattctct caacaagatg taaacaggaa agaaatctag ttgagcatga agataggatc 300
taacagcttt tccagttggt agatgacttt gtggccatct tggtattgag taagaaaata 360
aagcatggac atcatgaaaa taacagatgt taccctaaact catcttctaa aatctgtgca 420
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tgaggagctct tttaaaaaat gctagttact gaattttgta ttgttttact ttttttttta 600
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taagtgcaaa gtatgtaaga agttttaaca tttacttcac aggacttggt attgtgttaa 720
attctcacta ttgtgttttc ttttgctcac tgtttaggac aatttttctt taaaatagtt 780
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tctttcaaaa ggaagagcaa ccgtgttgaa tactaataat gatgaattag tattcagttg 900
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caatctaata caatcagatt actcagttgc cttacctcat gggaagagtt acttttttag 1740
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<210> 357

<211> 1217

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1157)

<223> n equals a,t,g, or c

<400> 357

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ttttacaaga tcacaagatg ttgatcagct tcgtgatatc aaagagtgcc tatggttcat 180
gcttgaagtt ttaatgacaa agaatgaaaa caatagccat gcctttatga agaagatggc 240
agagaacatc aagttaacca gagatgcccc gtctccagat gaatccaaga caaatgaaaa 300
actgtataca gtatgtgatg tggctctctg tgttataaat agtaaaagtg ctttgtgcaa 360
tgcagattca ccaaaggacc cagtcctccc aatgaaattt tttacacaac ctgaaaagga 420
cttctgtaac gataagagtt atatttcaga agagacaaga gtacttctgt taacaggaaa 480
gccaaagcct gctggagtac taggtgcagt aaataagcct ttatcagcaa cgggaaggaa 540
accctatgtt agaagcactg gcaactgagac tggaagcaat attaatgtaa attcagagct 600
gaacccttca accggaaatc gatcaaggga acagagttca gaggcagcag aaactggagt 660
tagtgaanaa gaagagaacc ctgtgaggat tatttcagtc acacctgtaa agaattattga 720
cccagtaaaag aataaggaaa ttaattctga tcaggctacc cagggaaca tcagcagtga 780
ccgaggaaaag aaaagaacag taacagcagc tgggtgcagag aatatccaac aaaaaacaga 840
tgagaaagta gatgaatcgg gacctccgc cccttccaaa cccaggagag gacgtcgacc 900
caagtctgaa tctcagggca atgctaccaaa aaatgatgat cttaaataaac ctattaacaa 960
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cttacaagg traaaatgca ttgcaaagg gagaaaatga aggccaaaca gaagcaggct 1140
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<210> 358

<211> 1963

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 358

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atgatatgca cacaggagat ccaaagcagg accttgctta tgaacgtcag tatgaacagc 180
aaacctatca ggtgatccct gaggtgatca aaaacttcat ccagtatttc caaaaaactg 240
tctcagattt gattgaccag aaagtgtatg agctacaggc cagtcgtgtc tccagtgtg 300
tcattgacca gaaggtgtat gagatccagg acatctatga gaacagctgg accaagctga 360
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aagtcagtgg gggaccttcc ttggagcaga ggtttgaatc ctattacaac tactgcaatc 540
tcttcaacta cattcttaat gccgatgggc ctgctcccct tgaactacct aaccagtggc 600
tctgggatat tatcgatgag ttcactctacc agtttcagtc attcagtcag taccgtgtg 660
agactgccaa gaagtcagag gaggagattg actttcttcg ttccaatccc aaaatctgga 720
atgttcatag tgcctcaat gtccttcatt ccctggtaga caaatccaac atcaaccgac 780
agttggaggt atacacaagc ggaggtgacc ctgagagtgt ggctggggag tatggcgggc 840
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gtttttgcta ccgtgaaacc tttacctaga tcagccatca gcctgtcaac tcagttaaca 1860
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1963

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<210> 359

<211> 1387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1321)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1348)

<223> n equals a,t,g, or c

<400> 359

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tcccgctcc cactccccag cgcccccgga ccgtgcagtt ctctgcagga ccaggccatg 180
gagctcgaag tccggcgggt ccgacaggcg ttcctgtccg gccggtcgag acctctgcgg 240
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ctgacggcca tcgccgcca cctgtgcaag agtgaattca atgtgtacag tcaggaagtc 360
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aatacagcca agatcttggc aaagcttctc cctcagtatt tagaccagga tctctatat 660
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tgtgaaaaat gtagatgagg ccataaattt cataaatgaa cgtgaaaagc ctctgggtctt 1260
taatgtatct tcgcataacc ataagctcat ccaaacgggt gattgatgag acnccattgg 1320
ngtgtcacag gcatgacgtc ttatgcantc acggtcaccc ttcccctttg gaggatgggt 1380
ccatggg

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1387

<210> 360

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

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gatcacaagg tcaggagatc gagaccatcc tggctaacac ggtgaaactc agtctctact 120
aaaaatagaa aaaaataaac caggcgtggt ggcacggcct gtaatcctag ccacttggga 180
ggctgaggca ggagaatcgc ctgaaccag gaggcggagg ttgcagtgag ccaagatcgc 240
accactgcac tccagcctgg gtgatggagc gagactctat ctcaaaaaaa aaattgtgca 300
tgtaaaacat gaaattataa cctgtgctct ttggatacct aatgcgacat ttaagntgna 360
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<210> 361
<211> 291
<212> DNA
<213> Homo sapiens

<220>
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<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
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<222> (21)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<220>
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<220>
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<220>
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<220>
<221> misc feature
<222> (97)
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<220>
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<220>
<221> misc feature
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<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
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<222> (207)
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<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<221> misc feature
<222> (279)
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<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 361
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aggagaagct gtgctacgtc gccctgggac ttcnagnagg agatggccac cgccgcatcc 180
tcctcttctc tggagaagag ctacganctg cccgatggcc aggtcatcac cattngcaat 240
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<210> 362
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<400> 362
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ctaagagcat cgagggggcg ccgagaggca aggggcgggg acgggcgggtg gctcgccctcg 120
cggcggaccg cccgcccgcct cccaagatcc aactacgagc tttttaactg cagcaacttt 180
aatatacgct attggagctg gaattaccgc ggctgctggc accagacttg cctccaatg 240
gatcctcggt aaaggattta aagtggactc attccaatta cagggcctcg aaagagtcct 300
gtattgttat ttttcgtcac tacctccccg ggtcgggagt gggtaatttg cgcgcctgcn 360
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<210> 363

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

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<222> (274)

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<220>

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<222> (304)

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<220>

<221> misc feature

<222> (307)

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<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 363

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gcccgcggt gcgaggggat cttctctgga tcaagcaatg gtggtgaaaa atgtttcgca 120
agggcaaaaa acgacacagt agtagcagtt cccaaagtag cgaaatcagt actaagagca 180
aggacaaagc aacaataatt cagatacctg tgcagaattt cgaataaaat atgttggtgc 240
cattgagaaa ctgaaactct ccgagggaaa aggncttgaa gggccattga gacctgataa 300

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351

<210> 364

<211> 329

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<220>
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<220>
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<222> (306)
<223> n equals a,t,g, or c

<220>
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<222> (315)
<223> n equals a,t,g, or c

<400> 364
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tgatcgaatt gcacagctnc atttgcnaac ggatttttta tccagaaata gaagaagttc 180
aagccttgga tgacaccgaa agggtttnca ggaggttttg gttccactgg aaagaattaa 240
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tttttncttc caagngtttt ggggggtttt 329

<210> 365
<211> 663
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (525)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (648)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (662)
<223> n equals a,t,g, or c

<400> 365
gctgcgctcg gctgagtcag tcagtctgtc ggagtctgtc ctcggagcag gcggagtaaa 60
gggacttgag cgagccagtt gccggattat tctattttccc ctccctctct cccgccccgt 120


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atctcttttc acccttctcc caccctcgct cgcgtagcca tggcggagcc gtcggcggcc 180
actcagtcce attccatctc ctcgtegtcc ttcggagccg agccgtccgc gcccggcggc 240
ggcgggagcc caggagcctg ccccgccctg gggacgaaga gctgcagctc ctctgtgctg 300
gtgcacgata tgattttctg gagagatgtg aagaagactg ggtttgtctt tggcaccacg 360
ctgatcatgc tgctttccct ggcagctttc agtgtcatca gtgtggtttc ttacctcatc 420
ctggctcttc tctctgtcac catcagcttc aggatctaca agtccgtcat ccaagctgta 480
cagaagtcag aanaagggca tccattcnaa gcctacctgg acttnacatt actctgtcct 540
cagaactttc cataattact gaatgctgcc atggtgcaca tcaacagggc ctgaaaatca 600
ttattcgtct ctttctgcta aaaatctggg tgantccttg aaactggntg tcttcatgtg 660
gnt 663

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<210> 366

<211> 238

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<400> 366

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ctgagactcc agcaggatgt nttatcaaca gcagcagtgc aagcagccct gccagccacc 60
tcctgtntgc cccgcgccaa agtgcccaga gccatgtcca ccccggaagt gccctgagcc 120
ctgcccacca tcaaagtgtc cacagtcttg cccacctcag cagtgccagc agaaatgtcc 180
tcctgtgaca ccttccccac cctgccagcc aaagtgttca ccnaagagca agtaacag 238

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<210> 367

<211> 291

<212> DNA

<213> Homo sapiens

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<220>

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<222> (133)

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<220>
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 <222> (227)
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<220>
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 <222> (247)
 <223> n equals a,t,g, or c

<220>
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 <222> (275)
 <223> n equals a,t,g, or c

<220>
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 <222> (279)
 <223> n equals a,t,g, or c

<220>
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 <222> (280)
 <223> n equals a,t,g, or c

<400> 367
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 cgctctctac ctgctggctg ccctaggggg caactcctcc cccagcgcca aggacatcaa 120
 gaagatcttg ganagcgtgg gtatcgaggc ggacgacgac cggctcaaca aggttatcag 180
 tgagctgaat ggaaaaaaca ttgaagacgt cattgcccag ggtatngca agcttgccag 240
 tgtaccngct gggtgggggc tgtaaccgtc tctgntggnn ccaagcctct g 291

<210> 368
 <211> 400
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 <222> (87)
 <223> n equals a,t,g, or c

<220>
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 <222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

<220>

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<222> (152)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (186)

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<220>

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<222> (236)

<223> n equals a,t,g, or c

<220>

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<222> (303)

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<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

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<222> (317)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
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<222> (322)
<223> n equals a,t,g, or c

<220>
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<222> (326)
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<220>
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<220>
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<222> (341)
<223> n equals a,t,g, or c

<220>
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<222> (345)
<223> n equals a,t,g, or c

<220>
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<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<400> 368
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tggttgagca gcggtngccg cagcttnccc gacttcccca cccaggggt ggtattcagg 120
gacatctcnc ccgtnttgaa ggaccccgnc tnccttcgcg ccgncatcgg cctcctggcg 180
cgacanctga aggcgaccca cgggggcccgc atcgactaca tcgcaggcct agactnccgg 240
agagttcctc ttttggccct ccctgggtcca ggagctttgg actgggctgc gtgggttaatc 300
cgnaancggt gngaagntgn cnaggnccca attctntggg nttantgatt tcctnggagt 360
naggggaagn tnnagggtga ggatttanga aaaaggcctt 400

<210> 369
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (390)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (419)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (425)
 <223> n equals a,t,g, or c

<400> 369
 ccacctcgca ggtgcgccag aactaccacc aggactcaga ggccgccatc aaccgccaga 60
 tcaacctgga gctctacgcc tcctacgttt acctgtccat gtcttactac tttgaccgcg 120
 atgatgtggc tttgaagaac tttgccaaat actttcttca ccaatctcat gaggagaggg 180
 aacatgctga gaaactgatg aagctgcaga accacgaggt ggccgaatct tcttnaggat 240
 atcaagaaac cagactgtga tgactgggag aacggctgaa tgcaatggaa tgngcattac 300
 attttggnaa aaaatgggga attaatact tctgggaact gnacaaactg ggcaacttgcc 360
 aaaaatggcc cccantttgg gggactttan ttgagacca attacctgat agccaggtna 420
 aaagncct 428

<210> 370
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
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 <222> (31)
 <223> n equals a,t,g, or c

<220>
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 <222> (44)
 <223> n equals a,t,g, or c

<220>
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 <222> (51)
 <223> n equals a,t,g, or c

<220>
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 <222> (57)

<223> n equals a,t,g, or c

<220>

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<222> (128)

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<220>

<221> misc feature

<222> (203)

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<220>

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<222> (204)

<223> n equals a,t,g, or c

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<222> (219)

<223> n equals a,t,g, or c

<220>

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<222> (229)

<223> n equals a,t,g, or c

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<220>

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<222> (256)

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<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
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<220>
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<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<400> 370
caagcttggtg aggnctcctg ttcaggtata nggtattgaa ggtngctatg ncacagntct 60
ttattctgct gcatcaaaac agaataagct ggagcaagta gaaaaggagt tgttgagagt 120
agcacaantc ctgaagggaac ccaaagtggc tgcttctgtt ttgaatccct atgtgaagcg 180
ttccattaaa gtgaaaagcc tanntgacat cacagcaana gagaggttnt ctcccctaca 240
ctaccaacct gntcantttg cttgctgaaa atggtnagatt aagccgatac ccaaggagtn 300
gtttntgnnt tttctaacat ggatgagtgt ccatcgcgga gaggtacttn cacagtgacc 360
tntggaatct cctttagaag aagcnacact cctctgaatt agaaatgtcc tcaaggcttc 420
ctgaggcaag gca 433

<210> 371
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c

<400> 371
aaaggacgaa cctgatctct tatactagta tccttaatca tttttattgc cacaactaac 60
ctcctcggac tctgcctca ctcatTTaca ccaaccaccc aactatctat aaacctagcc 120
atggccatcc ccttatgagc gggcgagtg attataggct ttcgctctaa gattaaaaat 180
gccctagccc acttcttacc acaaggcaca cctacacccc ttatcccat actagttatt 240
atcgaaacca tcagcctact cattcaacca atagccctgg ccgtacgcct aaccgctaac 300
attactgcag gccacctact catgcaccta attggaagcg ccaccctagc aatatcaacc 360
attaaccttc cctctacact tatcatcttc acaattctaa ttctactgac tatcctagaa 420
atcgctgtcg ccttaatcca agcctacgtt ttcacacttc tagttaagcc tctacctgca 480
cgacaacaca taaaaaaaaa aaaaaaaaaa ntnaaggggg gggcggggtnc ccaatccc 538

<210> 372
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
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<222> (45)
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<220>
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<222> (59)
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<220>
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<222> (64)
<223> n equals a,t,g, or c

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<222> (78)
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<222> (144)
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<220>
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<222> (181)
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<222> (198)
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<222> (241)
<223> n equals a,t,g, or c

<220>

<221> misc feature
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<220>
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 <222> (282)
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<220>
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 <222> (362)
 <223> n equals a,t,g, or c

<400> 372
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 cgcncntagaa ctagtggntc ccccgggctg caggaattcg gcacgaggtc gccaagatgg 120
 tgaagcccaa gtacaaagga cggngcacca tcaaccgctc caaggccagc acaaaccag 180
 ntcgagtgc gggagcanga ggccaaaaca tgagggaccg ggccaccatc cggcgctga 240
 ntatgtatag gcaaaaggag cgcaggacga gtcgtggtaa antaattaaa cccctgcaat 300
 atcaatcaac ggtggcttct ggcacagtgg caagagtaga gccaaatatt aaatggtttg 360
 gnaacacacg tgtgattaag cagtcatcat tacaaaaatt tcaag 405

<210> 373
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 373
 gcaagaacgc cctggagaag tacggacccc tgaagcccct gccacagacc ccgcacctgg 60
 aggaggactt gaaggagggtg ctgctgtctg aggctggcat cgaactcatc atcgaggacg 120
 acatcaggcc cgagaagcag aagaggaagc ctgggctgctg gcggagcccc atcaagaaaag 180
 tccggaagtc tctggctctt gacattgtgg atgaggatgt gaagctgatg atgtccacac 240
 tgcccaagtc tctatccttg ccgacaactg ccccttcaaa ctcttccagc ctcacctgt 300
 caggatatcaa agaagacaac agcttctccc aagcccacgt caggcctggc ctcatctcag 360
 accctgctta ggatggggga tgtggcaggg gtgctcctgt gctcaccctc tcttgggtgca 420
 tttttttgga agaataaaaat tgctctcttc tttaaaaaaa 460

<210> 374
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (343)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<400> 374

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gccctgagcc cctgaatct tggagtgggtg tgagggatgg aaccacccat cgggccatgt 60
gtctacagga cctcaccgca gtggagtcag agtttcttag ccagttcaac atgaccttcc 120
cttccctacc tccaccttct cctgccttc tctcttctct cgtctgagcc cccaggcctt 180
ttccactttg agggaggtgc ttcgaagaat gttgcccaca cctaagtgtt agaagcctat 240
gtccgttcat cctgagagg tctgaaagaa taaaaataaa ttctaaaaaa aaaaaaaaaa 300
aactcgaggg ggggccccgg acccaatttg ccctataggg agncgattac aattcactgc 360
cgcgttttac aacgtnnnga ctggaaaaac ccn 393
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<210> 375

<211> 587

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

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<220>

<221> misc feature

<222> (30)

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<220>

<221> misc feature

<222> (75)

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<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<220>
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<222> (135)
<223> n equals a,t,g, or c

<220>
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<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
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<222> (209)
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<220>
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<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
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<220>
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<220>
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<220>

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<220>
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<222> (433)
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<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
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<222> (461)
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<220>
<221> misc feature
<222> (464)
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<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (502)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<400> 375

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acttctccta tctcncccag tcctagctgc tggcatcact atactactaa cagaccgnaa 120
cctcaacacc acctnctcgc accccgccgg aggaggagac cccattctat accaacacct 180
attctgattt ttcggacacc ctgaaggna tattcttatc ctaccaggct tcggaataat 240
ctcccatatt gtaacttact actccgaaa aaaagaacca tttggataca taggtatgga 300
ctgagctatg atatcaattg gnttcctagg gnttatcgtg agagcacacc atatatttac 360
agtaggaata gacgnagaca cangagcata tttcacctgc gntaccataa tcatngntat 420
ccccaacggg ggncaaagna attaaagctgg actaggcaca nttncaggga aagcaataat 480
gaaaanggac tgctgnaaga gnttctgagc cctaagggaat caactttcnt ttcaaccgga 540
agggggggccg aatngggaat gggattaacc aaactnaata attggaa 587
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<210> 376

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

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<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

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<220>

<221> misc feature

<222> (66)

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<220>

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<222> (74)

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<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

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<220>
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<220>
 <221> misc feature
 <222> (240)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (314)
 <223> n equals a,t,g, or c

<220>
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 <222> (332)
 <223> n equals a,t,g, or c

<220>
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 <222> (430)
 <223> n equals a,t,g, or c

<400> 376
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 ctaganctag tggntcccc ggctgcagg aattcggcac gaggtgaaaa ctaccacctaa 120
 aagccaaaat gggaaaggaa aagactcata tcaacattgt cgtcattgga cacgtagatt 180
 cgggcaagtc caccactact ggccatctna cctataantn cgggtggcatc gacaaaagan 240
 ccattgaaaa atttgagaag gaggctgctg agatgggaaa gggctccttc aagtatgcct 300
 gggctcttgga taanctgaaa gctgagcgtg ancgtggtat caccattgat atctccttgt 360
 ggaaatttga gaccagcaag tactatgtga ctatcattga tgccccagga cacagagact 420
 ttatcaaaan catgattaca gggacatctc aggtgactg t 461

<210> 377
 <211> 517
 <212> DNA
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<220>
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 <222> (261)
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<220>
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<222> (484)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (508)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (515)
 <223> n equals a,t,g, or c

<220>
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 <222> (517)
 <223> n equals a,t,g, or c

<400> 377
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 atcagacttt gttttaacaa ttgaaagccc accgaagggtg cactaaagca agcccttgat 120
 ttatttttttg agtcaaactt cttgtgggtgt tttgcgggga tagtgcttat tgaatttttg 180
 gtttcttttga aataatcact gtttgtttcc cctttgtagc tgggaacttc tggggtagga 240
 cgttgctgct atcttcagtt ncacagacct aaccagttac gatggttttg gaccatttat 300
 gccgggattc gacatcattc cctataatga tctgcccgca ctggagggtat ttcactagcg 360
 tcatagtgtc cagctcattg ggaatagaaa ttaaagctgt tgaatatatg aattaaaagt 420
 cattatatga cagtaatgca aatttatctc acttaaggta accacgattc agacttggtc 480
 ttantacnat caattagttt ccaaccnga gaaantn 517

<210> 378
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (56)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

<222> (61)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (137)
 <223> n equals a,t,g, or c

<220>
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 <222> (167)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (191)
 <223> n equals a,t,g, or c

<220>
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<220>
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 <222> (242)
 <223> n equals a,t,g, or c

<220>
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 <222> (245)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (293)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (296)
 <223> n equals a,t,g, or c

<400> 378
 naccatacaa aagggaacaa aagcatggag catccaccgc ggtggcggcc gctctngaac 60
 nagtggatcc cccgggctgc aggaattcgg cacgagcgca ggccctgaaa tgcagactgg 120
 ccgaaataac ttgtcntoc ggcggaaccc agctgaccct cagcgcnttc cctccaaccc 180
 ttcccaccgt ntccagtgtg cagcaggctn cgagcaaagt gaacacaacg tgtgccaaaga 240
 cntanacgag tgcaactgcag ggacgcacaa ctgtagagca gaccaagtgt gcntcnattt 300
 ac 302

<210> 379
<211> 491
<212> DNA
<213> Homo sapiens

<220>
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<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
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<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
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<222> (128)
<223> n equals a,t,g, or c

<220>
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<222> (206)
<223> n equals a,t,g, or c

<220>

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<222> (214)
<223> n equals a,t,g, or c

<220>
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<222> (233)
<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<222> (313)
<223> n equals a,t,g, or c

<220>
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<222> (318)
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<220>
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<222> (346)
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<220>
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<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (458)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (461)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (464)
 <223> n equals a,t,g, or c

<400> 379
 gcntcaanan tgttnggacg gaacaaatcc ggggantctc ttccagcctc cgaccgaccc 60
 tccgatttcc tctcgccttg caacctccgg gaccatcttc tcggncatct cctgnttctg 120
 ggacctgnca ccaccgtttt tgtggtttagc tccttcttgc caaccaacca tgagctccca 180
 gattcgtcag aattattcca ccgacntgga ggcnacccgc aacagcctgg tcnatttgta 240
 cctgcatgcc tcctacacct acctctctct gggcttctat ttcnaccncc atgatttggc 300
 tctggaaagc gtnagccnct tcttccacga aactggccga ggagancgcg anggctacga 360
 acgtctcctg aatatgcaaa accagcgtgg gcggccgcgc tctcttccag gaagtcaaca 420
 agcccnctta aanataattg gggttaaaac cccaaaaancc ntgnaaactt gccattgccc 480
 tgaaaataaaa a 491

<210> 380
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (35)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (56)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
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<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
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<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<400> 380

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ggnccacttg gaaaacccgg tggatatcca tgaagaaaac cactatnnag ataatcccnt 120
tcaacaggct cacaattnga gaaggacagc aacaccacct agggggagcc aaacaggctg 180
gngacgttta aaagaccgnt tncaaangag gtnnacttat tntaaagggn ctnatatatg 240
aagcagagga ggtgataatt agtttntcct 270
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<210> 381

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (141)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (158)
 <223> n equals a,t,g, or c

<400> 381
 gaagaaatca accttgctcc tgacagctca tccgtggttg tatcangact tatggtggcc 60
 accaaatatg aagtgagtgt ctatgctctt aaggacactt tgacaagcag accagctcag 120
 ggagttgtca ccactntgna naatgtcagc ccancaanaa 160

<210> 382
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (562)
 <223> n equals a,t,g, or c

<400> 382
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 tcaagaagga ctggaaggac tgagcccagc cagaggcggg cagggcagac tgacggacgg 120
 acgacggaca ggcggtatgtg tccccccag ccctccctt ccccatacca aagtgtgac 180
 aggccctccg tgccctccc accctggtcc gcctccctgg cctggctcaa ccgagtgcct 240
 ccgaccccc tctcagccc tccccaccc acaggcccag cctcctcgggt ctctgtctc 300
 gttgctgctt ctgctgtgtc tgtgggggag agaggccgca gccaggcctc tgctgccttt 360
 ctgtgcccc caggttctat ctccccgtca caccgaggc ctggcttcag gagggagcgg 420
 agcagcattc tccaggcccc cggttggttc ctgggagtg tgcgtctgtg ttcgggtgga 480
 ctgggggtgtg ggatgcacgg nctgtgggg cggccgtct cagcccgtgt cctgcagccc 540
 ttgcgctgcg gccgctaaca tntgctacat ggggtgacgg gggctatagc ttactctggt 600
 gatacatggg ctccgcc 617

<210> 383
<211> 307
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 383
gcggagcgtg cgggccctgc tctgcaccct gcgcgcggtc ccggtaccgc ccgcgccctg 60
cccgccgagg ccctggcagc tgggggtggg cgccgtccgt acgctgcgca ctggacccgc 120
tctgctctcg gtgcgtaaat tcacaganaa acacgaatgg gttaacaaca gaaaatggca 180
ttggaacagt gggaatccag caattttgca caggaagcgt tgggaaattt tgttttattgt 240
tatctccctg aaatttgga caaaatttga aacaaacaaa ttaatttttg gttgcttttg 300
gaggggtt 307

<210> 384
<211> 424
<212> DNA
<213> Homo sapiens

<220>
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<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)

<223> n equals a,t,g, or c

<400> 384

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ggcctcactc ccgagctcta ctgactccca acagagcgcc caagaagaaa atggccataa 60
gtggagtccc tgtgctagga tttttcatca tagctgtgct gatgagcgct caggaatcat 120
gggctatcaa agaagaacat gtgatcatcc aggccgagtt ctatctgaat cctgaccaat 180
caggcgagtt tatgtttgac tttgatggtg atgagatttt ccatgtggat atggcaaaga 240
aggagacggt ctggcggcgt gaagaatttg gacgatttgc cagctttgan gctcaagggtg 300
cattggccaa catagctgtg gacaaagcca acctggaaat catgacaaag cgctccaact 360
atactccgat caccaatgta cctnnagagg tnanctgtgc tcacgancag ccctgtggaa 420
ctga                                         424

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<210> 385

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 385

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aggnaagatg aaaataaagt agatgggatg aatgccccea aaggccaaac tgggaactct 60
agccgtggtc caggagacgg agggaaacaga gaccactgga aggagtcaga taggaaagat 120
ggcaaaaagg atcaagactc cagatctgca cctgagccaa agaaacctga ggaaaatcca 180
gctttctaagt tcagttctgc aagcaagtat gctgctctct ctgttgatgg tgaagatgaa 240
aatgagggag aagattatgc cgaatagacc tctacatcct gtgcttttnt cctagtttct 300
ctccaccctg ggaacattcg agagcaaadc aaaacctcta tccagacaag ac          352

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<210> 386

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (528)
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<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<220>
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<222> (555)
<223> n equals a,t,g, or c

<220>
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<222> (569)
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<220>
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<222> (589)
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<220>
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<222> (666)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (672)
<223> n equals a,t,g, or c

<400> 386
gattctccct gggtacatcg acttcactgc agaccaggtg gacctgactt ctgctctgac 60

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caagaaaatc actcttaaga cccactggg ttcctctccc atggacacag tcacagaggc 120
tgggatggcc atagcaatgg cgcttacagg cggatttggc ttcattccacc acaactgtac 180
acctgaattc caggccaatg aagttcggaa agtgaagaaa tatgaacagg gattcatcac 240
agaccctgtg gtcctcagcc ccaaggatcg cgtgcgggat gtttttgagg ccaaggccccg 300
gcatggtttc tgcggtatcc caatcacaga cacaggccgg atggggagcc gcttggtggg 360
catcatctcc tccagggaca ttgattttct caaagaggag gaacatgact gnttcttgga 420
agagataatg acaaagaggg aagacttggg ggtagcccct gcaggcatca cactgaagga 480
ggcaaatgaa attctgcagc gcancaagaa nggaaagggtg cccattgnaa atgagatgat 540
gagcttgngg gcatnatggc cggacaganc tgaagaagaa tcgggctanc cactagcttc 600
aaagatgcca gaacaantgt ggggtgggcaa ncatgggact atgggtgcca gttagggtggc 660
ttgttnccaa cntg 674
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<210> 387

<211> 309

<212> DNA

<213> Homo sapiens

<220>

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<222> (14)

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<220>

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<222> (24)

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<220>

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<222> (25)

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<222> (188)

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<222> (200)

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<222> (288)

<223> n equals a,t,g, or c

<220>

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<222> (290)

<223> n equals a,t,g, or c

<220>
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 <222> (291)
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<220>
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 <222> (304)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (309)
 <223> n equals a,t,g, or c

<400> 387
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 gggtcgaccc acgcgtccgc ccacgcgtcc ggggcggctg agacgccgcc tgcctggcac 120
 ctaggagcgc agcggagccc cgacaccgcc gccgccgcca tggagtccga gaccgaaccc 180
 gagcccgnc a cgtcctctggg gaagagcccc aaccagcgcc accgcgactt ggagctgagt 240
 ggcgaccgcg gctggagtggt gggccacctc aaggcccacc tgagccgngn ntaccccagag 300
 cgtncgcgn 309

<210> 388
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (215)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (322)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (370)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

366

<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<400> 388
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cccgtgttgg tggaatgagc gttgcatgtg tcttgaagag aaaagcagtg ctttggcagg 120
actctttcag ccccccacctg aaacatcacc ctcaagaacc agctaattccc aacatgcctg 180
ttgttttgac atctggaaca gggtcgcaag cgcancacaa ccagctgcaa atcaggctct 240
tgcagctggg actcactcca gccctgtccc aggatctata ggagttgcag gccgttccca 300
ggacgacgct atggtggact anttcttttc agaggcagca ttggtgagca gcttgggggg 360
aagaaggaan tggaagaagg cnggnattat taataagcaa acntcgat 408

<210> 389
<211> 601
<212> DNA
<213> Homo sapiens

<220>
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<222> (5)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (10)
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
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<222> (467)
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<220>
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<222> (487)
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<220>
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<222> (522)
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<220>
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<222> (552)
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<220>
<221> misc feature
<222> (576)
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<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (597)
<223> n equals a,t,g, or c

<400> 389
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gacgaaagat gaactgattg cccgcctccg ctgcgtgggt gaacaactga accgtgatgt 120
cagcctgacg gggacgaaaag aagaactggc gtcctgtgtg gcagagctga aagaggagct 180
tgatgacacg aggcctaagc ttggcactgg ccgtcgtttt acaacgtcgt gactgggaaa 240
accctggcgt taccctaactt aatcgccttg cagcacatcc ccctttcgcc agctggcgta 300
atagcgaaga ggcccgcacc gatcgccctt cccaacagtt gcgnagcctg aatggcgaat 360
ggcgccctgat gcggtatttt ctccttacgc atctgtgcgg tatttcacac cgcatatggt 420
gcactctcag tacaatctgc tctgatgccg catagttaag ccagccncga caccgcgcaa 480
cacccgntga cgcgccctga cgggcttgct gcttccggca tncgcttaca gacaagctgt 540

gaccgttccg gnagctgcat gtgtcaaaaag gttttnacccg tatnaccgaa acgcgcnaaa 600
c 601

<210> 390
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<400> 390
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tttgggcatc ttcattgacca ttctgctcat catcatccca gtgttggtcg tccaggccca 120
gcatagatc agggagcatc attgaggcca ggagctctgc ccgtgacctg tatcccacgt 180
actctatctt ccattcctcg ccctgcccc agaggccagg agctctgccc ttgacctgta 240
ttccacttac tccaccttcc attcctcgcc ctgtccccac agccgagtcc tgcattcanc 300
ctttatcctc acacgctttt ctacaatggc attcaataaa gtgtatatgt ttctgggtgaa 360
aaaaaaaaa aaaaaaaaaa aaanaaaann annaaaaaaaa aaaaaaa 407

<210> 391
<211> 566
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 391
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gcagtgcagc aaggagcagc atatagtcca gagggtcagc ccatggggag ctttgtgttg 120
gatggtcagc aacacatggg gatccggcct gcaggtttgc agagcatgcc aggggactac 180
gtttctcagg gtggtcctat gggaatgagt atggcacagc caagttacac tcctccccag 240
atgacccac accctactca attaaagacat ggaccccaa tgcattcata ttgccaagc 300
catccccacc acccagccat gatgatgcac ggaggacccc ctaccacccc tggaatgact 360
atgtcagcac agagccccac aatgttaaatt tctgtagatc ccaatgttgg cggacagggt 420
atggacattc atgccaata gtntaagggg actcaaggga aaagggaaca cacgcaaaaa 480
ctattttaag acttctgga ctttgaccag gtgttgacac ttaatatgaa attccagaca 540
gctgtgatta tttttaactt tggcat 566

<210> 392
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
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<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<400> 392

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cccatctctg accatgaggc caccctgagg tgctggggccc tgggcttcta ccctgcggag 60
atcacactga cctggcagcg ggatggggag gaccagacc aggacacgga gctcgtggag 120
accaggcctg caggggatgg aaccttccag aagtgggagg ctgtggtggt gccttctgga 180
gaggagcaga gatacacctg ccatgtgcag catgagggtc tgcccaagcc cctcaccctg 240
agatggggagc tgtcttccca gccaccatc cccatcgtgg gcntcattgc tggcctgggt 300
ctccttggac tgtgatcact ggagctgtgg tccctgccct gatttngtag gaagnaanaan 360
ctcnntattg aaaaaggagg gattttcact ccntgctgct aagcanttga caattgcccc 420
aagggg 425
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<210> 393

<211> 443

<212> DNA

<213> Homo sapiens

<220>

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<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 393
ctcgggctgg gccttattat ccatcacaag aagatgagcc ccagcacgan gcctccaatg 60
ccactcagca tcttgctctg ggcagattca gactgagccc gccactccac ggtgatgggg 120
ttctggaggc tggggtgctc catgtggcag gtgtagacgt ctccatgctg gggagtcatt 180
tccagcatca ccaggatctg gaaggtccag tcaccgttcc taataagggg ggtggacaca 240
acgccgggtg tctcctcctg gtcattccga atctgcccag agcaagatgc tgagtggcat 300
tggaaggctt gtgctggggc catcttcctc gggctgggct tattatccat cacangatca 360
gaaanggctc ctgcactgac tcctnagact attttaactg ggattgggtat cacttttcng 420
taagcctgct tgtccctgcc can 443

<210> 394
<211> 189
<212> DNA
<213> Homo sapiens

<220>
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<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
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<222> (84)
<223> n equals a,t,g, or c

<220>
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<222> (110)
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<220>
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<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<400> 394
ggnagaggtc atccctaanc accatcaact ataatgagtt tccnaccatg gtgtttcctt 60
ctggncagat cagcnagggn tcgnccttgg ccccgggccc tccccaagtn cctgccccag 120
gttccagccc ctgcccntgn tnccagcnat ggtatcagct ctggcccagg ccccgagnccc 180
tntgcccag 189

<210> 395
<211> 349
<212> DNA
<213> Homo sapiens

<220>
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<222> (286)
<223> n equals a,t,g, or c

<220>
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<222> (299)
<223> n equals a,t,g, or c

<220>
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<222> (315)
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<220>
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<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<400> 395
gcacgagctg accgccaagt atctcaacta ctatcggggg atgctggacg tcgcccataga 60
gcaggtggac ttcaaggact tctaccgggc catagcagtg aatgatgtgc gccaggctgc 120
ccgcagcgcc gccagctaca tgctcttcga cccaaggac agcgatcatgc agcagaacct 180
gggtgtattac cggttccacc gggctcgtg gggcctggaa gaggaggact tccagccccg 240
ggaggaggcc atgctctacc acaaccagac cgccgagctg cgggantgct ggagttcanc 300
cacatgtacc tgcanttaag atgatgaaat tggancnggg aaggaaaca 349

<210> 396
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<400> 396

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cctgacaggc cctggggccaa gcccgaggac ccttctctcc tggaggatcc caggatcaag 60
gcgatcgag ccaagcacao taaaactaca gccaggtcc tgatccggtt ccccatgcag 120
aggaatgggg gtggatcccc aagtctgtga caccagaacg cattgctgag aactttaagg 180
tcttttgact ttgaactgag cagccaggat atgancacct tactcagcta caacangant 240
gaagggtcttg ttgctgtttt agntgttcct cccacaagga ttacccttca taaaaatttt 300
ggaa                                     304
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<210> 397

<211> 349

<212> DNA

<213> Homo sapiens

<220>

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<222> (128)

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<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

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<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<400> 397
tgtccaagg g catccgggac aacgagcgga gtggccgggc ccgagtgcac gtgtctgagg 60
agggcactga gcccgagggc atgctccagg tgctggggcc caagccggct ctgcctgcag 120
gtaccganga caccgccaag gaggatgcgg ccaaccgcaa nctggccaag ctctacaagg 180
tctccaatgg tgcattggacc atgtccgtct ccctcctggc tgatgaaaac ccttccgcca 240
aggggcctga aattcagaag actgcttcat cctggaccac gcaanatngg aaatctttgt 300
cttgaaaggc aacangcnac acgaagaaaa gaaagggtgcc tccanacca 349

<210> 398
<211> 638
<212> DNA
<213> Homo sapiens

<220>
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<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (540)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (560)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (563)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (578)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (636)
<223> n equals a,t,g, or c

<400> 398
tagcctcata nnggacaaan nggatcccgc gtgacgnccg tctaaatatg gatccccggc 60
gcagattcgc acagggagac aggactcgat gacagacagg caggtctcgt gagggaacgg 120
gggcccgggac ttcgtaagga gagacctggc cataagggac acctttgtga atgcctctcg 180
gacctgtac agcagcagcc ccagagtcct aagcaacaac agtgacgcca acttggagct 240
catcaacacc tgggtggcca agaacaccaa caacaagatc agccggctgc tagacagtct 300
gncctccgat accgccttg tcctcctcaa tgctatccta cctgagtgcc aagtggaaga 360
caacatttga tcccaagaaa ccagaatgga nccctttcac ttcaaaaact cagttataaa 420
gtgcccata tgaatagcag aagtnccgtg gggccatttc attgaccaac tttgaagcca 480
aggtggggag tgcantctcc acaatctgag tttnggatct ggnccccaga cctgaaacan 540
cgntttttaa catgggacan ggnctagccc ttctgttnaa aggcacatg gggaaaactgg 600
gatgtccaag tccagccaaa agtngttact tcccgnat 638

<210> 399
<211> 245
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
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<222> (53)

<223> n equals a,t,g, or c

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<222> (67)

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<220>

<221> misc feature

<222> (100)

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<222> (115)

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<222> (126)

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<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (197)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<400> 399

tgngaccaa catggccttt tccccnttca ncatcgccag cntccttacc cangtcctgc 60
tcggggntgg ggataacacc aaaacaaacc tggagagcan cctctcttac cccanggact 120
tcaccnatgt ccaccaagcc ctgaagggn tcacaaccaa aggtgtcacc tcagtctctc 180

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aaatcttcca ntgccngaa ctggccataa gggacccttt gtgnaatgcc nctcggaccc 240
tgttc 245

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<210> 400
<211> 364
<212> DNA
<213> Homo sapiens

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<220>
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<222> (290)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

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<400> 400
ggcacgagca aggccagga tggcaccttc tccagcgtgc tcacactgac caacctcact 60
gggctagaca cgggagaata cttttgcacc cacaatgact cccgtggact ggagaccgat 120
gagcggaaac ggctctacat ctttgtgcc gaagctacat ctgcaaaacc accattgggg 180
acagggaggt ggattctgat gcctactatg tctacagact ccaggggtgag cccctttct 240
ggcctgatgc tcagcagagt gttcatccat caacgtctct gtggaacgcn tnnaggactg 300
tggtccgcca ggtggagaac atcaccttca ngtgcattgt ggatcgggna tgaggtgtca 360
attt 364

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<210> 401
<211> 409
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

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<220>
 <221> misc feature
 <222> (35)
 <223> n equals a,t,g, or c

<220>
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 <222> (379)
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<220>
 <221> misc feature
 <222> (391)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (405)
 <223> n equals a,t,g, or c

<400> 401
 tttagagccg gactaggacc agggccctgg gcctntccac actcccatg gagaagctgg 60
 cggcctctac agagcccaaa gggcctcggc cggcctcggg ccgtgagagt gtccaggtgc 120
 ccgatgacca agactttcgc agcttcgggt cagacgggct acctcatcca gagcacaggg 180
 cccaagagct gcgtcatcac ctacctggcc caggtggacc ccaaaggctc cttacccaag 240
 tgggtggtga ataaatcttc tcagttcctg gctcccaagg ccatgaagaa gatgtacaag 300
 gcgtgcctca agtaccgccga gtggaaacag aagcacctgc ctcacttcaa gccgtggctg 360
 caccgcgagc agagcccgnt gccgagcctg ncgctgcgga gctgncggg 409

<210> 402
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (432)
 <223> n equals a,t,g, or c

<400> 402
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 tgccctctgg cctcaacct catcttgatg gcagcctctg gtgtgtgtg cgaagtgaag 120
 gacgtttgtg ttggaagccc tggatcccc ggcactcctg gatccacagg cctgccaggc 180
 agggacggga gagatggtgt caaaggagac cctggccctc caggcccat gggccacct 240
 ggagaaatgc catgtcctcc tggaaatgat gggctgcctg gagccctgg tatccctgga 300
 gagtgtggag agaaggggga gcctggcgag aggggccctc cagggcttcc agctcatcta 360
 gatgaggagc tccaagccac actccacgac tttagacatc aaatcctgca gacaagggga 420
 gccctcagtc tncaggg 437

<210> 403

<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<400> 403
cacaacacag gtgtcgtgaa aactaccctt aaaagccaaa atgggaaagg aaaagactca 60
tatcaacatt gtcgtcattg gacacgtaaa ttcgggcaag tccaccacta ctggccatct 120
tatctatata tgcggtggct tcnacaaaaa ancctttgaa nantttgaaa aggaggctgc 180
tnatatggga aagggtcct cca 203

<210> 404
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
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<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
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<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<400> 404
ggacccccgct gagtacaacc tgcgctcgcg caccgtgctg tgcgggacct gcggggcagcc 60
tgccgacaag gcatctgcca gcggctcagg agcccagagc cccagaaact gcagcatcat 120
gtaatctggg acctgccagg caggggtggg ggtggaggct tcctgcgtcc tcctcacctc 180
atgccacccc cctgccctgc acgtcatggg agggggcctg aagccaanga aaaataaccc 240
tttggttttt ttcttctgta tntttttttc taagagaant attttctaca gtgggttttna 300
tantgaanga aaaacacaag caaaaaaaaa aaaaaagggc ggccgctcta naggatccaa 360
agcttacnta cgcgtgcatg cga 383

<210> 405
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
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<220>
<221> misc feature
<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (428)
 <223> n equals a,t,g, or c

<400> 405
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 gaacttgtgc gagcctcaag tcactccaca gacctcatgg aagccatggc catgggcagc 120
 gtggaggctt cttattaagt gtttagcagc agctttgata gttctgacgg anntgggcag 180
 gtctgctcac caggtggcca gataccgncc acgtgcccc atcattgctg tggacccggg 240
 aatccccaga cagttcgtca aggccanct tttaccgtgg gcattcttcc ctgtgctntt 300
 gcaaggaccc cattccagga ggccttggtt ttaggacgtg ggaccttccg gtggaacttt 360
 tgccatgatt tttgggaaag gccnagtttt tttcaagaag ggganntggt caattngttt 420
 gaccgttngg gcc 433

<210> 406
 <211> 429
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (391)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (399)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (406)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (426)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (428)
 <223> n equals a,t,g, or c

<400> 406
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 cctgaagctt gccttctgtg acatctgtca gaaattcctg ctcaatggat ttcgatgtca 180
 gacttgtggc tacaaatttc atgagcactg tagcaccaaa gtacctacta tgtgtgtgga 240

ctggagtaac atcagacaac tcttattggt tccaaattcc actattggtg atagtggagt 300
cccagcacta ccttctttga ctatgcgtcg tatgcgagag tctggtccaa ggatgcctgt 360
aagttctcag cacagatatt ctacacctca ngccttcanc tttaanacct ccagtcacct 420
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<211> 270

<212> DNA

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ggtgggggca tttngccgac tgccgncnac ctaaaccctg atgtgacctc taccctgccc 180
taacccttgc cagccggaat ccggganccg attcnattn natcacaggg ttctgatggt 240
tccctttaac natctgtatt ctggccccga 270

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cttcacgcgc gctctcaaga ccgtcaataa gatactacag atcaacaaag atgacgtaac 180
tgccctgcat tgtaaagtgg tatgccttat ccanaatgga agtttcaagg aagctttgaa 240
tgtcatcaat actcacacca aagtgttngc caataactct ctctcctttg aaaangcata 300

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ttgcgaatac aggctgaaac agaattgana atgccttgaa aaacaataga aagtgccac 360
ccagcagaca gacaaactga aaggaacttt atggacaatt nttnttccgt ttgggaaagc 420
ttttaataaa tgcttaacaa tgttttaaaa tttcttccga aactccccca ataattttaa 480
taaggaaaag gaaaacnacc tttcccentt nttgcantcc aaacattgga aaattggtcc 540
caaaaactgg cccccaaaag gcattaantt tntaaacttt tttttttttt ggccggccct 600
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<211> 376

<212> DNA

<213> Homo sapiens

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tgtggctgtg ccctctggcc ctcaacctca tcttgatggc agcctctggg gctgcgtgcg 180
aagtgaagga cgtttgtgtt ggaagccctg gtatccccgg cantcctgga tcccacggcc 240
tgccangcan ggaagggana aatggtgtca aangagaccc tggccctcca nggcccattg 300
gtccgccttg agaaacaaca tgtcctcctg ggaataatgg gctgcttgag cccttgggtg 360
nccnganaaaa cnttga 376

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<212> DNA
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aatctttgaa ggcagggcgca aacgggcata aattccaggg accactgggt gagagaggaa 180
taaggcccag agcgaggaaa ggattttacc aaagcatcaa tacaaccagc ccaaccatcg 240
gtccacacct gggcattttg tgagagtcaa agctgaccat ggatccctgg ggccaacggc 300
aacagcatgg gcctcacctc ctctgtgatt tctttctttg caccaaagac atcagtctcc 360
aacatgtttc tgttttggtg gttgattcag caaaaatctc cagtgacaac atcgcaatag 420
ttttttactt ctcttaggtg gctctgggaa tgggagaagg gtaggatgtc aggggtagtt 480
tggtttagaa ccagccgtat ttacatgaac tggataatta atggcattat tttggtagca 540
aagattaaaag gggcattgga agccatccct tttttacatt tnatccacag aaaccagaaa 600
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<211> 392

<212> DNA

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cccaggccga accggtgcag ttcaaggact gcggttctgt ggatggagtt ataaaggaag 120
tgaatgtgag cccatgcccc acccaaccct gccagctgag caaaggacag tcttacagcg 180
tcaatgtcac cttcaccanc aatattcaan ctaaaagcan caaggccgtg gtgcatggca 240
tcctgatggg cgtcccagtt ccctttccca ttccctgagcc tgatggttgt aagagtggaa 300
ttaactgccc tatccaaaaa gacaagacct atagctacct gaataaacta ccanngaaaa 360
gcgaatatcc ctctataaaa ctgngngngg na 392

<210> 412
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<212> DNA
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cggatgacga gaagtatctg tggaaggacc tgaccctgga ccaggcctat agctatgctg 120
tggaagaatgc caaggacatc atcgccctgtg gctttgacat caacaagact ttcataattct 180
ctgacctgga ctacatgggg atgagctcag gtttctacaa aaatgtggtg aagattcaaa 240
agcatgttac cttcaaccaa gtgaaaggca ttttcggctt cactgacagc gactgcattg 300
ggaagatcag ttttcctgcc atccaggctg ctccctcctt cagcaactca ttcccacaga 360
tcttccgaga caggacggat atccagtgcc ttatcccatg tgccattgac caggatcctt 420
actttagaat gacaagggac gtngcccccga ggatcggtta tcctaaacca gccctgntga 480
ctccaccttc ttcccagccc tgcanggcgc ccagaccaa atgagtgcc gcgaccccaa 540
ctcctccatc ttcctnaccg acacggncaa gcagatcaaa accaaggtca ataagcatgc 600
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<212> DNA

<213> Homo sapiens

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ccggccctgt gattccggag tcccctttga accatcgaag cctccagtca ttgaggggct 120
gagcccaactg tttacaggaa tccagagagt ttcaaggaaa agttcgttcg caagaccgc 180
gagaanccgg tggtaacctat aggttgccctg gccacggcgg ccgcccctcac ctacggcctn 240
tactccttcc accggggggca acagccagcg ctcttcagct catgatgcgc acccggtatcg 300
ccgcccaggt ttcaagggtc gcagccatct tgctgggtct ggggtgttcat gctatgnaat 360
tttcgaaccn taanccaggt ttggntttga aaagtncgca gaaatggntt ccaaaancca 420
gggagcaaac aatggggcct acntngggat ttattccctc ntttcttttg aaaggcccn 480
ttttcgttgg ggaagnaatt gaacctttgt gtaatgttaa cgaaaatttt ttnaaaatcc 540

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<213> Homo sapiens

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<400> 415

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gtttaataaaa aatcatggaa agactcttaa tgcagactct tcttaagtgt taatagggat 180
tttttcagct tatttttggtt gcagtttcca atttttaaaa atggttgagg taatctttcc 240
caccttccca aaccttaatt cttggtagat ggcattagtg ttggaaccaa tgctttcntc 300
atgtcttcaa ttcttttggtt tatggcnttc ctttncagat gtatttaaac aaacaaaaaac 360
cctttaaaaa aaaaaaaaaa aaccgggggg gggggggccc gnaaccatt cccccaaaa 420
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<220>
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 anctctagca tcaccagtat tagaggcacc ggctngccca gtggacacat gtttaacggg 180
 ccgcgggtac cctaaccgtg gcaaagggtta gcataatcan tgttccttaa ttanggggacc 240
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<210> 417
 <211> 146
 <212> DNA
 <213> Homo sapiens

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<222> (140)

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gtgccggtag tggatttggt ttnggccggt ggagtgggtg tggntttggn cttggtggcg 120
gantgtgttt tggaggtggn ttcggt 146

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<211> 400

<212> DNA

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<222> (381)
<223> n equals a,t,g, or c

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<222> (399)
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tatacgattg naaggnttat gtcactaaag atttttattc tgattntttc ataatacaaag 120
gtcatatgag actggtagag acaagntttg tagtgaagta nngtngcant aatttctgta 180
cctgatcaag tttattgcag cttttctttt cctatttctn ttntttangg gttantntna 240
acaaatggca atgagtagaa aagttaacat gaagatttta gaaggagaga acttacatga 300
cacagatttg tgagtcctgtg actgtgacac tattgnatgt gattgtaaaa gctttnattg 360
agcattgnca aatttgtaag nttcataggg atggacatna 400

<210> 419
<211> 282
<212> DNA
<213> Homo sapiens

<220>
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<222> (13)
<223> n equals a,t,g, or c

<220>
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (203)
<223> n equals a,t,g, or c

<400> 419
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catgagatgg agccctcctt attccccatc aggatgagca atcctggcca agcataatga 120
cagagagagg cagacttcgg ggaagccctg actgtncaga gctaaggaca cagtggagat 180
tctntggcac tctgaggtct cnttggcagg cctggtcagg ctctccatga ggttagaagg 240
ccaggtagtg ttccagcagg gtggtggcca agccaacccc at 282

<210> 420
<211> 508
<212> DNA
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<220>

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<220>
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<220>
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<222> (406)
<223> n equals a,t,g, or c

<220>
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<222> (413)
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<222> (414)
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<220>
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<222> (415)
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<220>
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 <222> (451)
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<220>
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 <222> (484)
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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (490)
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<400> 420
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 atctgtnagt tctgagagggc atttaggccca tgggacaggg aggacgctct ctggccttcg 120
 gctccatcct gaggctccac ttgggtctgtg agatgctaga actccctttc aacagaattc 180
 acttggtggct attgggactg gaggcaccct tagccacttc attcctctga tgggccctga 240
 ctcttcccca taatcactga ccagccttga cactccnttg caaattttcc agcactgaac 300
 ccaggnagca ntcttagcct tggcttcgac atgagatgga gcctcttatt nccatctggt 360
 ccagttcctt aattacagat ggnagnatta gggtttgggt agaagncctc aannnaaaaa 420
 agggtgctt ctggtcctna gttttttttg naaccagtgc attaggtgga atctggcaga 480
 tatnnagagn gagatttggg gagcttat 508

<210> 421
 <211> 236
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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<222> (13)
<223> n equals a,t,g, or c

<220>
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<222> (14)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (42)
<223> n equals a,t,g, or c

<220>
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<222> (49)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (82)
<223> n equals a,t,g, or c

<220>
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<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

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<222> (133)

<223> n equals a,t,g, or c

<220>

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<222> (138)

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<220>

<221> misc feature

<222> (149)

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<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

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<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
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<222> (233)
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<400> 421
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tcttgaggcc tgaaaagaag cnggagcnnn gactggtacc cananccatg tggctgtgcc 120
ctgctggccc ttnaaccnca tcttgtatng gcagnttctg gtgctgcgtg cgaatnnaag 180
gnacgttttg tnttggaagc cctgntatcc ccggcactcc tggatcccac ggnctg 236

<210> 422
<211> 381
<212> DNA
<213> Homo sapiens

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<222> (10)
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<220>
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<220>
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<222> (62)
<223> n equals a,t,g, or c

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<222> (268)
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<220>
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<222> (271)
<223> n equals a,t,g, or c

<220>
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<222> (275)
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<220>
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<220>
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<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
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<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
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<222> (344)
<223> n equals a,t,g, or c

<220>
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<222> (348)
<223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (361)
 <223> n equals a,t,g, or c

<220>
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 <222> (364)
 <223> n equals a,t,g, or c

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 antacaccca gatggcctga agcaactgaa gatccacaaa agaagtgaag atagccagtt 120
 cctgccttaa ctgatgacat tccaccattg tgaatttggt cctgccccac cctaactgat 180
 caattgacct tgtggacaat acaccttccc cacccttgag aagggtgcttt gtaatatnt 240
 nccccccac cccacgggcc gaaccccnng nacntttga ggaaggtntt ttggtaatat 300
 tgctntgcgg gnattggagg aatgtggntt tngtaaagnt tgcnagcncg ttgggnccac 360
 naanaattgg gttggttaaa t 381

<210> 423
 <211> 429
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (118)
 <223> n equals a,t,g, or c

<400> 423
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 tttttaggga gaaaaataaa tatatgctgt agtggccaca aataggccta tgatttanct 120
 ggcaggccag gttttctcaa gagcaaaatc accctctggc cccttggcag gtaaggcctc 180
 ccggtcagca ttatcctgcc agacctcggg gaggatacct gggagacaga agcctctgca 240
 cctactgtgc agaactctcc acttcccca cctccccag gtgggcaggg cggagggagc 300
 ctcagcctcc ttagactgac ccctcaggcc cctaggctgg ggggttgtaa ataacagcag 360
 tcagggtggt taccagccct ttgcacctcc ccaggcagag ggagcctctg ttctggtggg 420
 ggccacctc 429

<210> 424
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
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<222> (182)
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<220>
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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
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<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

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<220>

<221> misc feature

<222> (425)

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<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 424

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gggagtcacc caggacccgg gcagtcgcct ttccccagct cctaaggctc ccggccttcc 120
ctgctgaaac agcaagacca gtgggttgcc gtgggaggcc tgggcttcaa accacctctg 180
cnatcacctg gctgtnggtc cccaagcagg acatacacac agtccctctc tngccctcat 240
cctcctncaa gtgnaaagga aaagccaagt taaaanggct cttgggacca tggttancna 300
gctttttccc tnnaccctng gccttgccaa nngccagggt aaaaaaaact taagttccaa 360
aacggccttt taacgccttc ctcggaataa cttccactgg tggaccaagg gccccagcct 420
gngtnngctt gtttgtttaa a                                     441
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<210> 425

<211> 419

<212> DNA

<213> Homo sapiens

<220>

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<222> (7)

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<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
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<222> (336)
<223> n equals a,t,g, or c

<220>
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<222> (350)
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<222> (368)
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<220>
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<222> (385)
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<220>
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<400> 425
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agtatganta tttcatTTtg agaacattcc ctggaattgc cacataattc attaaaaaca 120
tttttttaag caacacttgg gaacagtgtt tactttaaat ccttaatggc cttaattaat 180
tctnagattc ctgccccatc acttacagaa ccaattcact ttāgagtgc taaaaggaaa 240
cgatagccta gcttttctaaa gccacgtgt gtccctcaat tacagagggt aggaatgggt 300
ataactctta actgtggcaa agcagagtgg aaattncaat ttcataggan taaacaactg 360
ctgggggnat attccgtgcc caggnaaagg gaaaattttc tgggcaaata ttttgnca 419

<210> 426
<211> 407
<212> DNA
<213> Homo sapiens

<220>
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<222> (229)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (240)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (336)
 <223> n equals a,t,g, or c

<220>
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 <222> (357)
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<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (406)
 <223> n equals a,t,g, or c

<220>
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 <222> (407)
 <223> n equals a,t,g, or c

<400> 426
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 ttgaaacctg gcgcaataga tatagtaccg caagggaag atgaaaaatt ataaccaagc 120
 ataatatagc aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt 180
 tgcaaggaga gccaaagcta agacccccga aaccagacga gctacctgng aaacagctgn 240
 aagagcacac ccgctctatgt agcaaaatag tgggaagatt tatagggtga ggcgacaaac 300
 ctaccgagcc tgggtgatagc tggttgtcca agatanaatc ttagttcact ttaaatntgc 360
 ccacagaacc ctctaaatcc ccttgtaaat ttaactgttn aaaaann 407

<210> 427
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (315)
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<220>
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 <222> (344)

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<222> (356)

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<222> (358)

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<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 427

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tcgctatact tgagactaga tgacaaataa atgttattca agattgagtt ctactagtg 120
tttttttaat cctaaaaaag taatgttttg attttgtgac agtcaaaagg acgtgcaaaa 180
gtctagcctt gcccgagctt tccttacaat cagagcccct ctcaccttgt aaagtgtgaa 240
tcgcccttcc cttttgtaca gaagatgaac tgtattttgc attttgtcta cttgtaagt 300
aatgtaacat actgncaatt ttccttgttt gaatatagaa tggnaacact acacgngnac 360
atnccagag cctgggggtat attgccaatg aactttttgc aagcacactt gtaaccaa 420
gng 423

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<210> 428

<211> 378

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 428

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gcggaggttt cagnntagaa ggtgatgtca gctccagctc ccctctgtcg gtggtggggc 60
ctcaccttga agaggggaagt ctcaatatta ggctaagcta tttgggaaag ttctccccac 120
cgcccctgta cgcgtcatcc tagccccct taggaaagga gttagggtct cagtgcctcc 180

```

agccacaccc cctgccttcc ccagcttgcc catttccctg cccaaggcc cagagctccc 240
cccagactgg agagcaagcc cagcccagcc tcggcataga ccccttctg gtccgcccgt 300
ggctcgattc ccgggattca ttcctcagcc tctgctntc cttttatcc caataagtta 360
ttgctactgc tgtgaagg 378

<210> 429
<211> 92
<212> DNA
<213> Homo sapiens

<220>
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<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
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<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<400> 429
ggcacagtgg cagtgtagcg agnaaagggtt ttcgcctcct gtttcagcgg tgacggctct 60
tgggttttcn cgggnnngct ttttaatttt ag 92

<210> 430
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<400> 430

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gcaaaacctt aaatctccag gcttttttaa gcacaaaata taaataaaaag ctgggaaagt 60
aaaccaaaaat tcttcagatt gttcctcatg aatatcccc ttctcttgca attctccaga 120
gtggtaacag atgggtagag gcagctcagg tgaattaccc agcttgctc tcaattcatt 180
cctcctcttc ctctcaaagg ctgaaggcag ggcctttcca gtcctcacia cctgtccttc 240
acctagtccc tcctgaccca gggatggagg ctttgagtcc cacagtgtgg tgatacagag 300
cactagtgtg cactgcctgg ctttatttaa aggaatgcag tangcttcct ctgtagagct 360
ctgaaaangt tgactatata gaagtcttgt atgtttttac ttgggtaaga 410
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<210> 431

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

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<222> (396)

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<222> (400)

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<222> (472)

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<220>
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<220>
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<220>
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 <222> (536)
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<220>
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 <222> (563)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (583)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (605)
 <223> n equals a,t,g, or c

<400> 431
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 cctgcttcag tgaaataatt acagaatata cttagaaagg caaagtacat tgtaaaataa 120
 agttgagctt agtttttttt aaaaaaaaaa acaaagcaac aaattaacta gatacagaat 180
 aatggagAAC aagttgttaa aacatttaatt attatatagg atattgctaa ttgtgtatat 240
 gttgggttaa ttaataatat gtactaagaa tgccttatt cttgnggta aaaacctgcc 300
 taaattaaat tgggcttcaa tcaactgnaac ctgattcatc ctgggatgna aaccattcga 360
 agtcagctaa ttggactttt atggctctat cttttncttn agtgaagaac cctattttaa 420
 actgggtcat caattggctg gtctaacaag gatagtcttc aggttcaatt tnctgggccc 480
 tngngtaagt tggnaacaaa tcataatgga ttaattaaaa ggtnnaccat cattgnatta 540
 cagcggttat tataccgggg canaattcct tacttgcccc agnaatccta attccttggg 600
 ggggncttgg a 611

<210> 432
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
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<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
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<220>
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<222> (280)
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<220>
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<222> (287)
<223> n equals a,t,g, or c

<400> 432
ggcagagttt ttacagcaaa aactgctcaa agccatttaa attatatcct cattttaaaa 60
gttacatttg caaatatttc tccctatgaa taatgtagtc gatagtgtgc actctttctc 120
tctctctctc tctctctcac acacacacac acacacacac acacacacac acagacacgg 180
caccattctg cctggggcac tggaacacat tcctgggggt caccgntggg cagagtcact 240
aggaggttac ctgagtanc tggggnggcc taatgtctcn tgggggnntt t 291

<210> 433
<211> 124
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<400> 433
ctcgtgccga attcggcacg aggagagaga gagagagaga gagagagaga gagagagaga 60
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gngngggcna 120
nnag 124

<210> 434
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature

420

<222> (191)
<223> n equals a,t,g, or c

<220>
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<222> (228)
<223> n equals a,t,g, or c

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<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
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<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<400> 434
cgcggtccgct tgttttaaaa aaatgcacaa ttacttccc aaaaaagttg ttacttgcct 60
tttcaanttg ttgacaaaca cacatntgat attctcttat atgtnttagt aatgtnacgt 120

421

anaaaactcaa gcctttttat tctttgtgat taaatcctgt tttaaaatgt cncaaaacag 180
gaaccagcat nctaattgga tttactatat cgagatatgg ttcaaantngg actactaaaa 240
ttcattgaac actnaaacta tgaaacnant actttttata ttagtgaaga catgggatnt 300
aacttatgga aaatccaagt ngcagganag taatttttgt ntactttttt aaccagactg 360
gaatgggtga agnactagtg cg 382

<210> 435

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<400> 435

gccgaggtcc ccgcgccaga gacgcagccg cgctccacc acccacaccc accgcgccct 60
cgttcgctc ttctccggga gccagtccgc gccaccgccg ccgcccaggc catcgccacc 120
ctccgcagcc atgtccacca ggtccgtgtc ctcgtcctcc taccgcagga tgttcggcgg 180
cccgggcacc gcgagccggn cgagctcanc gggagctacg tgactacgtc accgcacct 240

422

acagcctgng cagcgcgctg agccccaach ncagccgcac ctctaccctc gntccccgggc 300
ggcgtgtatg ccacgcgctc ctn 323

<210> 436

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 436

gaattttgaa tgtatttttta aattttatttt ttcaaaaataa tgacattagt aaaaattttta 60
catagcctgt attgaattca cacattcaaa tgaggcttta ccagtaatga tggggattaa 120
tacagagcta gtgtttggca ttgactttta tctcaaatga gctaactgct caatgaatta 180
cagaagactc atactctttt tatttttttcc tggaatttaa aaaagaaaag ctttactaaa 240
tattgacata tatattttact ccaaatttta catttagtga aataagaata tctctagtag 300
ctcagttaac atncaaccag gaaagcttca aaaagatgat tctgaaaatg gcaggcaaaa 360
tttctttttta ttgtaggcaa ttcttaaact ggaaatttgg cntatgcat aataagtcac 420

423

gtgggtaaaa catccacctt gcagttaggg tncagnatc ctaaccttnc taatttattt 480
ctnttaggcc aantggacca ttt 503

<210> 437
<211> 77
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<400> 437
ggcacgagga gagagagaga gagaganaga gagagagaga gagagagaga gagagagaga 60
gagagagagn ntncgcn 77

<210> 438
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 438
attcaggggc tgacacttca aggtgacaga aggaccagcc cttgagggag aacttatggc 60
cacagcccat ccatagtaac tgacatgatt agcagaagaa aggaacattt aggggcaagc 120
aggcgcctgtg ctatcatgat ggaatttcat atctacagat agagagtttg ttgtgtacag 180
acttgttgtg actttgacgc ttgcgaacta gagatgtgca attgatttct tttcttcctg 240
gctttttaac tcccctgttt caatcactgt cctcccacac nagggaanga cagaaaggaa 300
attggccttc ctttttttcc ttggccccct tcccccaagg cctttaaact tttggaaccc 360
caaggaaaac tgnnttgga aaaccnttt cncnggggtt gnaaaaaatt gggaaanccn 420
ccca 424

425

<210> 439
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<400> 439
gcccagccca gaacaggggt ggattcccca acctcaacct cttttcttct ctgctcccaa 60
accatgtcag gaccaccttc ctctagagct cggagcccg gagggctctc acccactcct 120
actccagtat cagctggcac gggctccttc ctgagagcaa aggtcaagga cccctctgt 180
gaaggctcag cagaggtggg atcccacgcc cctcccggc ccctccctgc cctccattca 240
gggagaaacc tctccttccc gtgtgagaag ggccagaggg tccaggcatc ccaagtccag 300
cgtgaagggc cacagnccct cttggctgcc aagcacgcag atcccatgga catttgngga 360
aagggtcct tgcttgcn gn 382

<210> 440
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<400> 440
gaagaaatca aaacaagatc acaagaatac tgaaaaatga agcctaaaat gaagtattca 60
accaacaaaa ttccacagc aaagtggaag aacacagcaa gcaaagcctt gtgtttcaag 120
ctgggaaaat cccaacagaa ggncaaagaa gtttgcccca tgtactttat gaagctccgn 180
tctggcnctta tgataaaaaa ggaggcctgg nactttanga gagaaaccac c 231

<210> 441
<211> 86
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<400> 441

ggggcggttg tgccgcctcc attgttcgtg ttttaaggcg ccatgagggg tgacagaggc 60
ctgtggtcnt ggnggacnct ttgnnt 86

<210> 442

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 442

caaaccact ccaccttact accagacaac cttagccaaa ccatttacc aaataaagta 60
taggcgatag aaaattgaaa cctggcgcaa tagatatagt accgcaagg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taaccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccgtcta tgtagcaaaa tagtggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgccacag aacctcttaa atcccttgt aaatttact gttagtccaa 420
agaagaacag ctctttggac actaggaaaa aacttgtaga gagagtaaaa anttaacacc 480
catagtaggc taaaagcanc nccaatttaa gaaagcggtc aagctcacac ccactaccta 540
a 541

<210> 443

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 443

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cgacgagggtt ttccagggtta catgtataca gatttagcca cgatatatga acgcgctggg 60
cgagtgggaag ggagaaacgg ctcgattact caaatcccta ttctaaccat gcctaataatgat 120
gatatcactc accccatccc agacttgact ggctacatta cagaggggca gatctatgtg 180
gacagacagc tgcacaacag acagatttat ccacctatca atgtgctgcc ctcactatca 240
acgggttaatg aagtctgcta ttggagaagg ggatgaccag gaaggatcat gccgatgtat 300
ctaaccagct tnattgcctg ctatgctatt ggaaagggat gtgcaagcca tgaaagcttg 360
cgttggagaa aaaancctta cttaaangan cntctctact tggaaatc 408
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<210> 444

<211> 323

<212> PRT

<213> Homo sapiens

<400> 444

```
Arg Lys Lys Met Ala Leu Thr Ser Phe Leu Pro Ala Pro Thr Gln Leu
  1              5              10              15
```

```
Ser Gln Asp Gln Leu Glu Ala Glu Glu Lys Ala Arg Ser Gln Arg Ser
      20              25              30
```

```
Arg Gln Thr Ser Leu Val Ser Ser Arg Arg Glu Pro Pro Pro Tyr Gly
      35              40              45
```

```
Tyr Arg Lys Gly Trp Ile Pro Arg Leu Leu Glu Asp Phe Gly Asp Gly
      50              55              60
```

```
Gly Ala Phe Pro Glu Ile His Val Ala Gln Tyr Pro Leu Asp Met Gly
```

65		70		75		80
Arg Lys Lys Lys Met Ser Asn Ala Leu Ala Ile Gln Val Asp Ser Glu						
	85			90		95
Gly Lys Ile Lys Tyr Asp Ala Ile Ala Arg Gln Gly Gln Ser Lys Asp						
	100			105		110
Lys Val Ile Tyr Ser Lys Tyr Thr Asp Leu Val Pro Lys Glu Val Met						
	115			120		125
Asn Ala Asp Asp Pro Asp Leu Gln Arg Pro Asp Glu Glu Ala Ile Lys						
	130			135		140
Glu Ile Thr Glu Lys Thr Arg Val Ala Leu Glu Lys Ser Val Ser Gln						
145		150		155		160
Lys Val Ala Ala Ala Met Pro Val Arg Ala Ala Asp Lys Leu Ala Pro						
	165			170		175
Ala Gln Tyr Ile Arg Tyr Thr Pro Ser Gln Gln Gly Val Ala Phe Asn						
	180			185		190
Ser Gly Ala Lys Gln Arg Val Ile Arg Met Val Glu Met Gln Lys Asp						
	195			200		205
Pro Met Glu Pro Pro Arg Phe Lys Ile Asn Lys Lys Ile Pro Arg Gly						
	210			215		220
Pro Pro Ser Pro Pro Ala Pro Val Met His Ser Pro Ser Arg Lys Met						
225		230		235		240
Thr Val Lys Glu Gln Gln Glu Trp Lys Ile Pro Pro Cys Ile Ser Asn						
	245			250		255
Trp Lys Asn Ala Lys Gly Tyr Thr Ile Pro Leu Asp Lys Arg Leu Ala						
	260			265		270
Ala Asp Gly Arg Gly Leu Gln Thr Val His Ile Asn Glu Asn Phe Ala						
	275			280		285
Lys Leu Ala Glu Ala Leu Tyr Ile Ala Asp Arg Lys Ala Arg Glu Ala						
	290			295		300
Val Gly Asn Ala Cys Pro Ser Arg Glu Lys Asn Gly Ser Glu Arg Lys						
305		310		315		320
Gly Lys Thr						

<210> 445

<211> 640

<212> PRT

<213> Homo sapiens

<400> 445

Trp Val Arg Pro Thr Arg Pro Thr Leu Thr Ser Ile Cys Glu Lys Val
 1 5 10 15

Ile Val Pro Asn Met Glu Phe Arg Ala Ala Asp Glu Glu Ala Phe Glu
 20 25 30

Asp Asn Ser Glu Glu Tyr Ile Arg Arg Asp Leu Glu Gly Ser Asp Ile
 35 40 45

Asp Thr Arg Arg Arg Ala Ala Cys Asp Leu Val Arg Gly Leu Cys Lys
 50 55 60

Phe Phe Glu Gly Pro Val Thr Gly Ile Phe Ser Gly Tyr Val Asn Ser
 65 70 75 80

Met Leu Gln Glu Tyr Ala Lys Asn Pro Ser Val Asn Trp Lys His Lys
 85 90 95

Asp Ala Ala Ile Tyr Leu Val Thr Ser Leu Ala Ser Lys Ala Gln Thr
 100 105 110

Gln Lys His Gly Ile Thr Gln Ala Asn Glu Leu Val Asn Leu Thr Glu
 115 120 125

Phe Phe Val Asn His Ile Leu Pro Asp Leu Lys Ser Ala Asn Val Asn
 130 135 140

Glu Phe Pro Val Leu Lys Ala Asp Gly Ile Lys Tyr Ile Met Ile Phe
 145 150 155 160

Arg Asn Gln Val Pro Lys Glu His Leu Leu Val Ser Ile Pro Leu Leu
 165 170 175

Ile Asn His Leu Gln Ala Glu Ser Ile Val Val His Thr Tyr Ala Ala
 180 185 190

His Ala Leu Glu Arg Leu Phe Thr Met Arg Gly Pro Asn Asn Ala Thr
 195 200 205

Leu Phe Thr Ala Ala Glu Ile Ala Pro Phe Val Glu Ile Leu Leu Thr
 210 215 220

Asn Leu Phe Lys Ala Leu Thr Leu Pro Gly Ser Ser Glu Asn Glu Tyr
 225 230 235 240

Ile Met Lys Ala Ile Met Arg Ser Phe Ser Leu Leu Gln Glu Ala Ile
245 250 255

Ile Pro Tyr Ile Pro Thr Leu Ile Thr Gln Leu Thr Gln Lys Leu Leu
260 265 270

Ala Val Ser Lys Asn Pro Ser Lys Pro His Phe Asn His Tyr Met Phe
275 280 285

Glu Ala Ile Cys Leu Ser Ile Arg Ile Thr Cys Lys Ala Asn Pro Ala
290 295 300

Ala Val Val Asn Phe Glu Glu Ala Leu Phe Leu Val Phe Thr Glu Ile
305 310 315 320

Leu Gln Asn Asp Val Gln Glu Phe Ile Pro Tyr Val Phe Gln Val Met
325 330 335

Ser Leu Leu Leu Glu Thr His Lys Asn Asp Ile Pro Ser Ser Tyr Met
340 345 350

Ala Leu Phe Pro His Leu Leu Gln Pro Val Leu Trp Glu Arg Thr Gly
355 360 365

Asn Ile Pro Ala Leu Val Arg Leu Leu Gln Ala Phe Leu Glu Arg Gly
370 375 380

Ser Asn Thr Ile Ala Ser Ala Ala Ala Asp Lys Ile Pro Gly Leu Leu
385 390 395 400

Gly Val Phe Gln Lys Leu Ile Ala Ser Lys Ala Asn Asp His Gln Gly
405 410 415

Phe Tyr Leu Leu Asn Ser Ile Ile Glu His Met Pro Pro Glu Ser Val
420 425 430

Asp Gln Tyr Arg Lys Gln Ile Phe Ile Leu Leu Phe Gln Arg Leu Gln
435 440 445

Asn Ser Lys Thr Thr Lys Phe Ile Lys Ser Phe Leu Val Phe Ile Asn
450 455 460

Leu Tyr Cys Ile Lys Tyr Gly Ala Leu Ala Leu Gln Glu Ile Phe Asp
465 470 475 480

Gly Ile Gln Pro Lys Met Phe Gly Met Val Leu Glu Lys Ile Ile Ile
485 490 495

Pro Glu Ile Gln Lys Val Ser Gly Asn Val Glu Lys Lys Ile Cys Ala
500 505 510

Val Gly Ile Thr Lys Leu Leu Thr Glu Cys Pro Pro Met Met Asp Thr
 515 520 525
 Glu Tyr Thr Lys Leu Trp Thr Pro Leu Leu Gln Ser Leu Ile Gly Leu
 530 535 540
 Phe Glu Leu Pro Glu Asp Asp Thr Ile Pro Asp Glu Glu His Phe Ile
 545 550 555 560
 Asp Ile Glu Asp Thr Pro Gly Tyr Gln Thr Ala Phe Ser Gln Leu Ala
 565 570 575
 Phe Ala Gly Lys Lys Glu His Asp Pro Val Gly Gln Met Val Asn Asn
 580 585 590
 Pro Lys Ile His Leu Ala Gln Ser Leu His Lys Leu Ser Thr Ala Cys
 595 600 605
 Pro Gly Arg Val Pro Ser Met Val Ser Thr Ser Leu Asn Ala Glu Ala
 610 615 620
 Leu Gln Tyr Leu Gln Gly Tyr Leu Gln Ala Ala Ser Val Thr Leu Leu
 625 630 635 640

<210> 446
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 446
 Leu Glu Val Ala Ile Cys Cys Gln Gly Cys Gly Val Ala Pro Asp Phe
 1 5 10 15
 Thr Ala Val Pro Gly Thr Trp Thr Pro Arg Leu Gly Val Gly Val Cys
 20 25 30
 Phe Leu Leu Leu Ala Phe Thr Glu Ala Thr Gly Val Gly Gly Gly Gly
 35 40 45
 Trp Glu Ser Leu Lys Arg Asp Cys His Gly Ser Phe Pro Thr Arg Ala
 50 55 60
 Thr Ser Ser His Leu Thr Asp Ala Arg Pro Lys Gly Leu Gln Pro Val
 65 70 75 80

Ala Ile Pro Cys Phe Pro Arg Gln Pro Ala Pro Ala Ala Ile Pro Arg
85 90 95
Glu Val Ala Gln Glu Gly Ala Trp Pro Arg Ile Arg Asn Trp His Thr
100 105 110
Ala Lys Ser Pro Ala Leu Pro Leu Val Asp Ser Ile Val Leu Glu Trp
115 120 125
Pro Arg Ser Asp Glu Leu Cys Ala Cys Pro Trp Gln Trp Gln Ala Val
130 135 140
Ser Tyr Gly His Leu Gly Arg Thr Trp Asn Leu Ala Ser
145 150 155

<210> 447
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 447
Ala Glu Phe Cys Leu Trp Ala Ser Pro Phe Pro Ala Asn Ser Thr Asp
1 5 10 15
Pro Val Lys Ala Ala Gln Phe Glu Pro Pro Gly Arg Gln Met Ile Ala
20 25 30
Ile Arg Lys Arg Gln Xaa Glu Glu Thr Asn Asn Asp Tyr Glu Thr Ala
35 40 45
Asp Gly Gly Tyr Met Thr Leu Asn Pro Arg Ala Pro Thr Asp Asp Asp
50 55 60
Lys Asn Ile Tyr Leu Thr Leu Pro Pro Asn Asp His Val Asn Ser Asn
65 70 75 80

Asn

<210> 448
<211> 340
<212> PRT

<213> Homo sapiens

<400> 448

Cys	Val	Trp	Val	Leu	Val	Cys	Arg	Pro	Ser	Gly	Pro	Gly	His	Asp	Ser	1	5	10	15
Ile	Met	Tyr	His	Asn	Ser	Ser	Gln	Lys	Arg	His	Trp	Thr	Phe	Ser	Ser	20	25	30	
Glu	Glu	Gln	Leu	Ala	Arg	Leu	Arg	Ala	Asp	Ala	Asn	Arg	Lys	Phe	Arg	35	40	45	
Cys	Lys	Ala	Val	Ala	Asn	Gly	Lys	Val	Leu	Pro	Asn	Asp	Pro	Val	Phe	50	55	60	
Leu	Glu	Pro	His	Glu	Glu	Met	Thr	Leu	Cys	Lys	Tyr	Tyr	Glu	Lys	Arg	65	70	75	80
Leu	Leu	Glu	Phe	Cys	Ser	Val	Phe	Lys	Pro	Ala	Met	Pro	Arg	Ser	Val	85	90	95	
Val	Gly	Thr	Ala	Cys	Met	Tyr	Phe	Lys	Arg	Phe	Tyr	Leu	Asn	Asn	Ser	100	105	110	
Val	Met	Glu	Tyr	His	Pro	Arg	Ile	Ile	Met	Leu	Thr	Cys	Ala	Phe	Leu	115	120	125	
Ala	Cys	Lys	Val	Asp	Glu	Phe	Asn	Val	Ser	Ser	Pro	Gln	Phe	Val	Gly	130	135	140	
Asn	Leu	Arg	Glu	Ser	Pro	Leu	Gly	Gln	Glu	Lys	Ala	Leu	Glu	Gln	Ile	145	150	155	160
Leu	Glu	Tyr	Glu	Leu	Leu	Leu	Ile	Gln	Gln	Leu	Asn	Phe	His	Leu	Ile	165	170	175	
Val	His	Asn	Pro	Tyr	Arg	Pro	Phe	Glu	Gly	Phe	Leu	Ile	Asp	Leu	Lys	180	185	190	
Thr	Arg	Tyr	Pro	Ile	Leu	Glu	Asn	Pro	Glu	Ile	Leu	Arg	Lys	Thr	Ala	195	200	205	
Asp	Asp	Phe	Leu	Asn	Arg	Ile	Ala	Leu	Thr	Asp	Ala	Tyr	Leu	Leu	Tyr	210	215	220	
Thr	Pro	Ser	Gln	Ile	Ala	Leu	Thr	Ala	Ile	Leu	Ser	Ser	Ala	Ser	Arg	225	230	235	240
Ala	Gly	Ile	Thr	Met	Glu	Ser	Tyr	Leu	Ser	Glu	Ser	Leu	Met	Leu	Lys	245	250	255	

Glu Asn Arg Thr Cys Leu Ser Gln Leu Leu Asp Ile Met Lys Ser Met
260 265 270

Arg Asn Leu Val Lys Lys Tyr Glu Pro Pro Arg Ser Glu Glu Val Ala
275 280 285

Val Leu Lys Gln Lys Leu Glu Arg Cys His Ser Ala Glu Leu Ala Leu
290 295 300

Asn Val Ile Thr Lys Lys Arg Lys Gly Tyr Glu Asp Asp Asp Tyr Val
305 310 315 320

Ser Lys Lys Ser Lys His Glu Glu Glu Glu Trp Thr Asp Asp Asp Leu
325 330 335

Val Glu Ser Leu
340

<210> 449

<211> 625

<212> PRT

<213> Homo sapiens

<400> 449

Ala Leu Gly Cys Arg Ser Leu Cys Cys Val Ile Pro Gln Ser His Ala
1 5 10 15

Arg Asp Ser Gly Tyr Leu Phe Val Gly Leu Ser Gly Phe Arg Leu Pro
20 25 30

Asp Gln Ala Pro Ala Pro Ala Leu Gln Arg Arg Leu Tyr Ser Pro Asp
35 40 45

Ala Asp Arg Asp Cys Cys Ser His Gly Pro Val Ser Gly Gly Gln Ser
50 55 60

Ala Gln Leu Val Leu Asp Thr Lys Asp Leu Thr Ile Glu Lys Val Val
65 70 75 80

Ile Asn Gly Gln Glu Val Lys Tyr Ala Leu Gly Glu Arg Gln Ser Tyr
85 90 95

Lys Gly Ser Pro Met Glu Ile Ser Leu Pro Ile Ala Leu Ser Lys Asn
100 105 110

Gln Glu Ile Val Ile Glu Ile Ser Phe Glu Thr Ser Pro Lys Ser Ser
115 120 125

Ala Leu Gln Trp Leu Thr Pro Glu Gln Thr Ser Gly Lys Glu His Pro

130		135		140
Tyr Leu Phe Ser Gln Cys Gln Ala Ile His Cys Arg Ala Ile Leu Pro				
145		150		160
Cys Gln Asp Thr Pro Ser Val Lys Leu Thr Tyr Thr Ala Glu Val Ser				
	165		170	175
Val Pro Lys Glu Leu Val Ala Leu Met Ser Ala Ile Arg Asp Gly Glu				
	180		185	190
Thr Pro Asp Pro Glu Asp Pro Ser Arg Lys Ile Tyr Lys Phe Ile Gln				
	195		200	205
Lys Val Pro Ile Pro Cys Tyr Leu Ile Ala Leu Val Val Gly Ala Leu				
	210		215	220
Glu Ser Arg Gln Ile Gly Pro Arg Thr Leu Val Trp Ser Glu Lys Glu				
225		230		240
Gln Val Glu Lys Ser Ala Tyr Glu Phe Ser Glu Thr Glu Ser Met Leu				
	245		250	255
Lys Ile Ala Glu Asp Leu Gly Gly Pro Tyr Val Trp Gly Gln Tyr Asp				
	260		265	270
Leu Leu Val Leu Pro Pro Ser Phe Pro Tyr Gly Gly Met Glu Asn Pro				
	275		280	285
Cys Leu Thr Phe Val Thr Pro Thr Leu Leu Ala Gly Asp Lys Ser Leu				
	290		295	300
Ser Asn Val Ile Ala His Glu Ile Ser His Ser Trp Thr Gly Asn Leu				
305		310		320
Val Thr Asn Lys Thr Trp Asp His Phe Trp Leu Asn Glu Gly His Thr				
	325		330	335
Val Tyr Leu Glu Arg His Ile Cys Gly Arg Leu Phe Gly Glu Lys Phe				
	340		345	350
Arg His Phe Asn Ala Leu Gly Gly Trp Gly Glu Leu Gln Asn Ser Val				
	355		360	365
Lys Thr Phe Gly Glu Thr His Pro Phe Thr Lys Leu Val Val Asp Leu				
	370		375	380
Thr Asp Ile Asp Pro Asp Val Ala Tyr Ser Ser Val Pro Tyr Glu Lys				
385		390		400
Gly Phe Ala Leu Leu Phe Tyr Leu Glu Gln Leu Leu Gly Gly Pro Glu				

405					410					415					
Ile	Phe	Leu	Gly	Phe	Leu	Lys	Ala	Tyr	Val	Glu	Lys	Phe	Ser	Tyr	Lys
			420					425					430		
Ser	Ile	Thr	Thr	Asp	Asp	Trp	Lys	Asp	Phe	Leu	Tyr	Ser	Tyr	Phe	Lys
			435				440					445			
Asp	Lys	Val	Asp	Val	Leu	Asn	Gln	Val	Asp	Trp	Asn	Ala	Trp	Leu	Tyr
			450				455					460			
Ser	Pro	Gly	Leu	Pro	Pro	Ile	Lys	Pro	Asn	Tyr	Asp	Met	Thr	Leu	Thr
							470				475				480
Asn	Ala	Cys	Ile	Ala	Leu	Ser	Gln	Arg	Trp	Ile	Thr	Ala	Lys	Glu	Asp
				485							490				495
Asp	Leu	Asn	Ser	Phe	Asn	Ala	Thr	Asp	Leu	Lys	Asp	Leu	Ser	Ser	His
			500					505					510		
Gln	Leu	Asn	Glu	Phe	Leu	Ala	Gln	Thr	Leu	Gln	Arg	Ala	Pro	Leu	Pro
			515					520				525			
Leu	Gly	His	Ile	Lys	Arg	Met	Gln	Glu	Val	Tyr	Asn	Phe	Asn	Ala	Ile
			530				535				540				
Asn	Asn	Ser	Glu	Ile	Arg	Phe	Arg	Trp	Leu	Arg	Leu	Cys	Ile	Gln	Ser
							550				555				560
Lys	Trp	Glu	Asp	Ala	Ile	Pro	Leu	Ala	Leu	Lys	Met	Ala	Thr	Glu	Gln
				565							570				575
Gly	Arg	Met	Lys	Phe	Thr	Arg	Pro	Leu	Phe	Lys	Asp	Leu	Ala	Ala	Phe
				580				585					590		
Asp	Lys	Ser	His	Asp	Gln	Ala	Val	Arg	Thr	Tyr	Gln	Glu	His	Lys	Ala
			595				600					605			
Ser	Met	His	Pro	Val	Thr	Ala	Met	Leu	Val	Gly	Lys	Asp	Leu	Lys	Val
				610			615					620			
Asp															
				625											

<210> 450
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 450

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Asp Gly Ala Leu Leu Ile Pro His Leu Val Gln Phe Leu His Leu Gln
 1             5             10             15

Met Ala Ala Val Arg Ser Trp Gly Arg Arg Thr Leu Gln Ser His Thr
      20             25             30

Lys Cys Leu Pro Pro Gly Pro Leu Ser Ser Leu Ser Ala Thr Gln Cys
      35             40             45

His Gln Asp Glu Gln Ser Trp Pro Ser Ile Met Thr Glu Arg Gly Arg
      50             55             60

Leu Arg Gly Ser Pro Asp Cys Ala Glu Leu Arg Thr Gln Trp Arg Phe
 65             70             75             80

Ser Gly Thr Leu Arg Ser Leu Trp Gln Ala Trp Ser Gly Ser Pro
      85             90             95

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<210> 451

<211> 147

<212> PRT

<213> Homo sapiens

<400> 451

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Ser Ser Pro Val Asn Ala Thr Ala Phe Ala Ser Cys Leu Cys Ala Val
 1             5             10             15

Cys Asp Val Thr Gly Leu Phe Cys Lys His Gln His Val Gly Lys Leu
      20             25             30

Gly Ser Asn Leu Cys Ala Phe Val Phe Pro Met Gly Arg Asp Ser Gly
      35             40             45

Ser Arg Val Pro Leu Cys Ile Cys Phe Phe Val Leu Ala Glu Ile Leu
      50             55             60

Leu Glu Val Gly Arg Phe Ser Gln Gly Phe Ile Arg Leu Met Ser Ile
 65             70             75             80

Ser Val Leu Pro Ser Ser Lys Pro His Leu Leu Asn Gly Lys Gly Arg
      85             90             95

Trp Met Ala Pro Ala Gln Leu Asp Leu Arg Leu Trp Ser Gln Arg Arg
      100             105             110

Cys Gly Ala Glu Ala Tyr Pro Ala Asp Thr Leu Asp Ile Leu Leu Pro
      115             120             125

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Pro Gly Cys Arg Gly Gln Arg Pro Pro Ala Gln Gly Ser Cys Thr Tyr
 130 135 140

Leu Leu Ile
 145

<210> 452
 <211> 487
 <212> PRT
 <213> Homo sapiens

<400> 452
 Asp Leu Glu Arg Ser Tyr Leu Leu Lys Ile Asn Gly Lys Val Ala Glu
 1 5 10 15

Arg Pro Gln His Met Leu Met Arg Val Ser Val Gly Ile His Lys Glu
 20 25 30

Asp Ile Asp Ala Ala Ile Glu Thr Tyr Asn Leu Leu Ser Glu Arg Trp
 35 40 45

Phe Thr His Ala Ser Pro Thr Leu Phe Asn Ala Gly Thr Asn Arg Pro
 50 55 60

Gln Leu Ser Ser Cys Phe Leu Leu Ser Met Lys Asp Asp Ser Ile Glu
 65 70 75 80

Gly Ile Tyr Asp Thr Leu Lys Gln Cys Ala Leu Ile Ser Lys Ser Ala
 85 90 95

Gly Gly Ile Gly Val Ala Val Ser Cys Ile Arg Ala Thr Gly Ser Tyr
 100 105 110

Ile Ala Gly Thr Asn Gly Asn Ser Asn Gly Leu Val Pro Met Leu Arg
 115 120 125

Val Tyr Asn Asn Thr Ala Arg Tyr Val Asp Gln Gly Gly Asn Lys Arg
 130 135 140

Pro Gly Ala Phe Ala Ile Tyr Leu Glu Pro Trp His Leu Asp Ile Phe
 145 150 155 160

Glu Phe Leu Asp Leu Lys Lys Asn Thr Gly Lys Glu Glu Gln Arg Ala
 165 170 175

Arg Asp Leu Phe Phe Ala Leu Trp Ile Pro Asp Leu Phe Met Lys Arg
 180 185 190

Val Glu Thr Asn Gln Asp Trp Ser Leu Met Cys Pro Asn Glu Cys Pro

195	200	205
Gly Leu Asp Glu Val Trp	Gly Glu Glu Phe Glu Lys	Leu Tyr Ala Ser
210	215	220
Tyr Glu Lys Gln Gly Arg Val Arg Lys Val Val Lys Ala Gln Gln Leu		
225	230	235 240
Trp Tyr Ala Ile Ile Glu Ser Gln Thr Glu Thr Gly Thr Pro Tyr Met		
245	250	255
Leu Tyr Lys Asp Ser Cys Asn Arg Lys Ser Asn Gln Gln Asn Leu Gly		
260	265	270
Thr Ile Lys Cys Ser Asn Leu Cys Thr Glu Ile Val Glu Tyr Thr Ser		
275	280	285
Lys Asp Glu Val Ala Val Cys Asn Leu Ala Ser Leu Ala Leu Asn Met		
290	295	300
Tyr Val Thr Ser Glu His Thr Tyr Asp Phe Lys Lys Leu Ala Glu Val		
305	310	315 320
Thr Lys Val Val Val Arg Asn Leu Asn Lys Ile Ile Asp Ile Asn Tyr		
325	330	335
Tyr Pro Val Pro Glu Ala Cys Leu Ser Asn Lys Arg His Arg Pro Ile		
340	345	350
Gly Ile Gly Val Gln Gly Leu Ala Asp Ala Phe Ile Leu Met Arg Tyr		
355	360	365
Pro Phe Glu Ser Ala Glu Ala Gln Leu Leu Asn Lys Gln Ile Phe Glu		
370	375	380
Thr Ile Tyr Tyr Gly Ala Leu Glu Ala Ser Cys Asp Leu Ala Lys Glu		
385	390	395 400
Gln Gly Pro Tyr Glu Thr Tyr Glu Gly Ser Pro Val Ser Lys Gly Ile		
405	410	415
Leu Gln Tyr Asp Met Trp Asn Val Thr Pro Thr Asp Leu Trp Asp Trp		
420	425	430
Lys Val Leu Lys Glu Lys Ile Ala Lys Tyr Gly Ile Arg Asn Ser Leu		
435	440	445
Leu Ile Ala Pro Met Pro Thr Ala Ser Thr Ala Gln Ile Leu Gly Asn		
450	455	460
Asn Glu Ser Ile Glu Pro Tyr Thr Ser Asn Ile Tyr Thr Arg Arg Ser		

465 470 475 480

Cys Gln Glu Asn Phe Arg Leu
 485

<210> 453

<211> 330

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 453

Glu Glu Val Pro Leu Ala Gln Pro Glu Ser Lys Arg Asp Ile Leu Phe
1 5 10 15

Leu Phe Asp Gly Ser Ala Asn Leu Val Gly Gln Phe Pro Val Val Arg
 20 25 30

Asp Phe Leu Tyr Lys Ile Ile Asp Glu Leu Asn Val Lys Pro Glu Gly
 35 40 45

Thr Arg Ile Ala Val Ala Gln Tyr Ser Asp Asp Val Lys Val Glu Ser
 50 55 60

Arg Phe Asp Glu His Gln Ser Lys Pro Glu Ile Leu Asn Leu Val Lys
65 70 75 80

Arg Met Lys Ile Lys Thr Gly Lys Ala Leu Asn Leu Gly Tyr Ala Leu
 85 90 95

Asp Tyr Ala Gln Arg Tyr Ile Phe Val Lys Ser Ala Gly Ser Arg Ile
 100 105 110

Glu Asp Gly Val Leu Gln Phe Leu Val Leu Leu Val Ala Gly Arg Ser
115 120 125

Ser Asp Arg Val Asp Gly Pro Ala Ser Asn Leu Lys Gln Ser Gly Val
130 135 140

Val Pro Phe Ile Phe Gln Ala Lys Asn Ala Asp Pro Ala Glu Leu Glu
145 150 155 160

Gln Ile Val Leu Ser Pro Ala Phe Ile Leu Ala Ala Glu Ser Leu Pro
 165 170 175

Lys Ile Gly Asp Leu His Pro Gln Ile Val Asn Leu Leu Lys Ser Val
 180 185 190
 His Asn Gly Ala Pro Ala Pro Val Ser Gly Glu Lys Asp Val Val Phe
 195 200 205
 Leu Leu Asp Gly Xaa Glu Gly Val Arg Ser Gly Phe Pro Leu Leu Lys
 210 215 220
 Glu Phe Val Gln Arg Val Val Glu Ser Leu Asp Val Gly Gln Asp Arg
 225 230 235 240
 Val Arg Val Ala Val Val Gln Tyr Ser Asp Arg Thr Arg Pro Glu Phe
 245 250 255
 Tyr Leu Asn Ser Tyr Met Asn Lys Gln Asp Val Val Asn Ala Val Arg
 260 265 270
 Gln Leu Thr Leu Leu Gly Gly Pro Thr Pro Asn Thr Gly Ala Ala Leu
 275 280 285
 Glu Phe Val Leu Arg Asn Ile Leu Val Ser Ser Ala Gly Ser Arg Ile
 290 295 300
 Thr Glu Gly Val Pro Gln Leu Leu Ile Val Leu Thr Ala Asp Ser Leu
 305 310 315 320
 Gly Met Met Cys Gly Thr Pro Pro Trp Ser
 325 330

<210> 454
 <211> 280
 <212> PRT
 <213> Homo sapiens

<400> 454
 Leu Glu Phe Arg Ser Gly Lys Val Ala Phe Arg Asp Cys Glu Gly Arg
 1 5 10 15
 Tyr Leu Ala Pro Ser Gly Pro Ser Gly Thr Leu Lys Ala Gly Lys Ala
 20 25 30
 Thr Lys Val Gly Lys Asp Glu Leu Phe Ala Leu Glu Gln Ser Cys Ala
 35 40 45
 Gln Val Val Leu Gln Ala Ala Asn Glu Arg Asn Val Ser Thr Arg Gln
 50 55 60
 Gly Met Asp Leu Ser Ala Asn Gln Asp Glu Glu Thr Asp Gln Glu Thr

65	70	75	80
Phe Gln Leu Glu Ile Asp Arg Asp Thr Lys Lys Cys Ala Phe Arg Thr	85	90	95
His Thr Gly Lys Tyr Trp Thr Leu Thr Ala Thr Gly Gly Val Gln Ser	100	105	110
Thr Ala Ser Ser Lys Asn Ala Ser Cys Tyr Phe Asp Ile Glu Trp Arg	115	120	125
Asp Arg Arg Ile Thr Leu Arg Ala Ser Asn Gly Lys Phe Val Thr Ser	130	135	140
Lys Lys Asn Gly Gln Leu Ala Ala Ser Val Glu Thr Ala Gly Asp Ser	145	150	155
Glu Leu Phe Leu Met Lys Leu Ile Asn Arg Pro Ile Ile Val Phe Arg	165	170	175
Gly Glu His Gly Phe Ile Gly Cys Arg Lys Val Thr Gly Thr Leu Asp	180	185	190
Ala Asn Arg Ser Ser Tyr Asp Val Phe Gln Leu Glu Phe Asn Asp Gly	195	200	205
Ala Tyr Asn Ile Lys Asp Ser Thr Gly Lys Tyr Trp Thr Val Gly Ser	210	215	220
Asp Ser Ala Val Thr Ser Ser Gly Asp Thr Pro Val Asp Phe Phe Phe	225	230	235
Glu Phe Cys Asp Tyr Asn Lys Val Ala Ile Lys Val Gly Gly Arg Tyr	245	250	255
Leu Lys Gly Asp His Ala Gly Val Leu Lys Ala Ser Ala Glu Thr Val	260	265	270
Asp Pro Ala Ser Leu Trp Glu Tyr	275	280	

<210> 455

<211> 255

<212> PRT

<213> Homo sapiens

<400> 455

Asn Ser Arg Val Asp Pro Arg Val Arg Thr Ala Leu Gln Ile Phe Gln	1	5	10	15
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Arg Ile Pro Arg Trp Pro His Val Ala Gln Trp Asn Arg Ser Ser Ala
20 25 30

Thr Pro Ala Gly Val Arg Gly Gly Arg Ala Ala Ala Thr Phe Arg Ala
35 40 45

Asn Asp His Gln His Ile Arg Tyr Asn Pro Leu Gln Asp Glu Trp Val
50 55 60

Leu Val Ser Ala His Arg Met Lys Arg Pro Trp Gln Gly Gln Val Glu
65 70 75 80

Pro Gln Leu Leu Lys Thr Val Pro Arg His Asp Pro Leu Asn Pro Leu
85 90 95

Cys Pro Gly Ala Ile Arg Ala Asn Gly Glu Val Asn Pro Gln Tyr Asp
100 105 110

Ser Thr Phe Leu Phe Asp Asn Asp Phe Pro Ala Leu Gln Pro Asp Ala
115 120 125

Pro Ser Pro Gly Pro Ser Asp His Pro Leu Phe Gln Ala Lys Ser Ala
130 135 140

Arg Gly Val Cys Lys Val Met Cys Phe His Pro Trp Ser Asp Val Thr
145 150 155 160

Leu Pro Leu Met Ser Val Pro Glu Ile Arg Ala Val Val Asp Ala Trp
165 170 175

Ala Ser Val Thr Glu Glu Leu Gly Ala Gln Tyr Pro Trp Val Gln Ile
180 185 190

Phe Glu Asn Lys Gly Ala Met Met Gly Cys Ser Asn Pro His Pro His
195 200 205

Cys Gln Val Trp Ala Ser Ser Phe Leu Pro Asp Ile Ala Gln Arg Glu
210 215 220

Glu Arg Ser Gln Gln Ala Tyr Lys Ser Gln His Gly Glu Pro Leu Leu
225 230 235 240

Met Glu Tyr Ser Arg Gln Ser Tyr Ser Gly Arg Asn Val Trp Ser
245 250 255

<210> 456

<211> 278

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 456

Ser Pro Gln Trp Pro Leu Cys Ala Xaa Lys Ser Val Arg Val Pro Asn
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Ile Ser Thr Val Arg Glu Val
20 25 30

Ala Leu Leu Arg Arg Leu Glu Ala Phe Glu His Pro Asn Val Val Arg
35 40 45

Leu Met Asp Val Cys Ala Thr Ser Arg Thr Asp Arg Glu Ile Lys Val
50 55 60

Thr Leu Val Phe Glu His Val Asp Gln Asp Leu Arg Thr Tyr Leu Asp
65 70 75 80

Lys Ala Pro Pro Pro Gly Leu Pro Ala Glu Thr Ile Lys Asp Leu Met
85 90 95

Arg Gln Phe Leu Arg Gly Leu Asp Phe Leu His Ala Asn Cys Ile Val
100 105 110

His Arg Asp Leu Lys Pro Glu Asn Ile Leu Val Thr Ser Gly Gly Thr
115 120 125

Val Lys Leu Ala Asp Phe Gly Leu Ala Arg Ile Tyr Ser Tyr Gln Met
130 135 140

Ala Leu Thr Pro Val Val Val Thr Leu Trp Tyr Arg Ala Pro Glu Val
145 150 155 160

Leu Leu Gln Ser Thr Tyr Ala Thr Pro Val Asp Met Trp Ser Val Gly
165 170 175

Cys Ile Phe Ala Glu Met Phe Arg Arg Lys Pro Leu Phe Cys Gly Asn
180 185 190

Ser Glu Ala Asp Gln Leu Gly Lys Ile Phe Asp Leu Ile Gly Leu Pro
195 200 205

Pro Glu Asp Asp Trp Pro Arg Asp Val Ser Leu Pro Arg Gly Ala Phe
210 215 220

Pro Pro Arg Gly Pro Arg Pro Val Gln Ser Val Val Pro Glu Met Glu

[illegible]

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<210> 457
<211> 35
<212> PRT
<213> Homo sapiens
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<400> 457
His Pro Gly Arg Glu Gln Gln Arg Ala Gly His Thr Thr Cys Gln Ala
 1             5             10             15
Leu Gly Val Cys Gly Thr Met Ser Ser Pro Leu Gln Cys Ile His Ser
      20             25             30
Pro Asp Leu
      35

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<210> 458
<211> 154
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids
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$\langle 220 \rangle$

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458

Arg Tyr Ser Val Ile Leu Leu Asp Thr Leu Leu Gly Arg Met Leu Pro
1 5 10 15

Gln Leu Val Cys Arg Leu Val Leu Arg Cys Ser Met Asp Asp Ser Ala
20 25 30

Gly Pro Arg Glu Trp Leu Pro Arg Asp Ser Glu Cys His Leu Cys Met
35 40 45

Ser Val Thr Thr Gln Ala Gly Asn Ser Ser Glu Gln Ala Ile Pro Gln
50 55 60

Ala Met Leu Gln Ala Cys Val Gly Ser Trp Leu Asp Arg Glu Lys Cys
65 70 75 80

Lys Gln Phe Val Glu Gln His Thr Pro Gln Leu Leu Thr Leu Val Pro
85 90 95

Arg Gly Trp Asp Ala His Thr Thr Cys Gln Ala Ser Gly Cys Xaa Gly
100 105 110

Pro Cys Pro Ala Leu Ser Ser Val Ser Xaa Ala Pro Thr Phe Asp Glu
115 120 125

Asn Ser Xaa Xaa Gln Ala Gly His Thr His Ser Pro Ser Leu Ala Leu
130 135 140

Ile Leu Leu Ser Cys Lys Gly Lys Ala Lys
145 150

<210> 459

<211> 396

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (395)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 459

Arg	Val	Ile	Gly	Ser	Thr	Val	Xaa	Arg	Gly	Leu	Arg	Pro	Ser	Cys	Pro
1				5					10					15	

Asn	Ser	Gln	Ser	Pro	Val	Lys	Val	Glu	Glu	Thr	Cys	Gly	Cys	Arg	Trp
		20						25					30		

Thr	Cys	Pro	Cys	Val	Cys	Thr	Gly	Ser	Ser	Thr	Arg	His	Ile	Val	Thr
		35					40					45			

Phe	Asp	Gly	Gln	Asn	Phe	Lys	Leu	Thr	Gly	Ser	Cys	Ser	Tyr	Val	Leu
	50					55					60				

Phe	Gln	Asn	Lys	Glu	Gln	Asp	Leu	Glu	Val	Ile	Leu	His	Asn	Gly	Ala
65					70					75					80

Cys	Ser	Pro	Gly	Ala	Arg	Gln	Gly	Cys	Met	Lys	Ser	Ile	Glu	Val	Lys
				85				90						95	

His	Ser	Ala	Leu	Ser	Val	Glu	Leu	His	Ser	Asp	Met	Glu	Val	Thr	Val
		100						105					110		

Asn	Gly	Arg	Leu	Val	Ser	Val	Pro	Tyr	Val	Gly	Gly	Asn	Met	Glu	Val
		115					120					125			

Asn	Val	Tyr	Gly	Ala	Ile	Met	His	Glu	Val	Arg	Phe	Asn	His	Leu	Gly
	130					135					140				

His	Ile	Phe	Thr	Phe	Thr	Pro	Gln	Asn	Asn	Glu	Phe	Gln	Leu	Gln	Leu
145					150					155					160

Ser	Pro	Lys	Thr	Phe	Ala	Ser	Lys	Thr	Tyr	Gly	Leu	Cys	Gly	Ile	Cys
				165					170					175	

Asp	Glu	Asn	Gly	Ala	Asn	Asp	Phe	Met	Leu	Arg	Asp	Gly	Thr	Val	Thr
			180					185					190		

Thr	Asp	Trp	Lys	Thr	Leu	Val	Gln	Glu	Trp	Thr	Val	Gln	Arg	Pro	Gly
		195					200					205			

Gln	Thr	Cys	Gln	Pro	Ile	Leu	Glu	Glu	Gln	Cys	Leu	Val	Pro	Asp	Ser
	210					215					220				

Ser	His	Cys	Gln	Val	Leu	Leu	Leu	Pro	Leu	Phe	Ala	Glu	Cys	His	Lys
225					230					235					240

Val Leu Ala Pro Ala Thr Phe Tyr Ala Ile Cys Gln Gln Asp Ser Cys
245 250 255

His Gln Glu Gln Val Cys Glu Val Ile Ala Ser Tyr Ala His Leu Cys
260 265 270

Arg Thr Asn Gly Val Cys Val Asp Trp Arg Thr Pro Asp Phe Cys Ala
275 280 285

Met Ser Cys Pro Pro Ser Leu Val Tyr Asn His Cys Glu His Gly Cys
290 295 300

Pro Arg His Cys Asp Gly Asn Val Ser Ser Cys Gly Asp His Pro Ser
305 310 315 320

Glu Ala Val Ser Ala Leu Gln Ile Lys Ser Cys Trp Lys Ala Ala Val
325 330 335

Ser Leu Lys Arg Pro Ala Leu Ser Ala Leu Val Arg Met Glu Ser Ser
340 345 350

Thr Ser Ser Trp Lys Pro Gly Ser Arg Thr Thr Ser Pro Val Arg Ser
355 360 365

Ala Xaa Ala Ser Ala Gly Gly Arg Ser Thr Ala Gln Arg Ser Pro Ala
370 375 380

Pro Arg Pro Lys Leu Pro Arg Val Ala Cys Xaa Lys
385 390 395

<210> 460

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 460

Glu	Gln	Leu	Thr	Gly	Ser	Arg	Ala	Lys	Ser	Val	Gly	Ser	Trp	Arg	Arg
1				5					10					15	

Ser	Ser	Gln	Ser	Val	Lys	Lys	Pro	Thr	Glu	Gly	Lys	Ser	Arg	Glu	Glu
			20					25					30		

Glu	Lys	Lys	Gln	Lys	Phe	Trp	His	Leu	Phe	Pro	Gly	Cys	Ala	Lys	Met
		35					40					45			

Gly	Asp	Trp	Ser	Phe	Leu	Gly	Asn	Phe	Leu	Glu	Glu	Val	His	Lys	His
	50					55					60				

Ser	Thr	Val	Val	Gly	Lys	Val	Trp	Leu	Thr	Val	Leu	Phe	Ile	Phe	Arg
65					70					75					80

Met	Leu	Val	Leu	Gly	Thr	Ala	Ala	Glu	Ser	Ser	Trp	Gly	Asp	Glu	Gln
				85					90					95	

Ala	Asp	Phe	Arg	Cys	Asp	Thr	Ile	Gln	Pro	Gly	Cys	Gln	Asn	Val	Xaa
			100					105					110		

Xaa	Asp	Gln	Ala	Phe	Pro	Xaa	Phe	Pro	His	Xaa	Leu
		115					120				

<210> 461

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 461

Pro	Ala	Arg	Trp	Leu	Leu	Ser	Thr	Thr	Met	Ala	Ser	Thr	Glu	Gly	Thr
1				5					10					15	

Cys	Cys	Pro	Val	Asn	Trp	Val	Glu	His	Gln	Asp	Ser	Cys	Tyr	Trp	Phe
			20					25					30		

Ser His Ser Gly Met Ser Trp Ala Glu Ala Glu Lys Tyr Cys Gln Leu
 35 40 45

Lys Asn Ala His Leu Val Val Ile Lys Ser Arg Glu Glu Gln Val Arg
 50 55 60

Ala Ser Trp Tyr Ser Val Pro Lys Thr Cys Xaa Ile
 65 70 75

<210> 462

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 462

Leu Gly Pro Asn Lys Lys Lys Pro Ala Met Leu Leu Phe Leu Leu Ser
 1 5 10 15

Ala Leu Val Leu Leu Thr Gln Pro Leu Gly Tyr Leu Glu Ala Glu Met
 20 25 30

Lys Thr Tyr Ser His Arg Thr Met Pro Ser Ala Cys Thr Leu Val Met
 35 40 45

Cys Ser Ser Val Glu Ser Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
 50 55 60

Arg Xaa Gly Pro Arg Gly Glu Lys Gly Asp Pro Gly Leu Pro Gly Ala
 65 70 75 80

Ala Gly Gln Ala Gly Met Pro Gly Gln Ala Gly Pro Val Gly Pro Lys
 85 90 95

Gly Asp Asn Gly Ser Val Gly Glu Pro Gly Pro Lys Gly Asp Thr Trp

100 105 110
 Ala Lys Leu Asp Leu Gln Glu Leu Pro Val Xaa Leu Val Gln Leu Xaa
 115 120 125
 Glu Lys Val Pro Trp Gly Ser Lys Gly Thr
 130 135

 <210> 463
 <211> 246
 <212> PRT
 <213> Homo sapiens

 <400> 463
 Gly Arg Gly Leu Arg Gly Pro Gly Asp Ser Arg Pro Arg His Leu Pro
 1 5 10 15
 Val Ala Cys His Leu Leu Arg Leu Arg Thr Pro His Leu Asp Arg Ala
 20 25 30
 Leu Pro Arg Arg Leu Pro Ser Gln Asp Tyr Thr Gly Gly Met Gly Ile
 35 40 45
 Val Asn Gly Ala Lys Trp Asn Pro Arg Thr Gly Thr Ile Asn Asp Phe
 50 55 60
 Ser Tyr Leu His Thr Asn Cys Leu Glu Leu Ser Phe Tyr Leu Gly Cys
 65 70 75 80
 Asp Lys Phe Pro His Glu Ser Glu Leu Pro Arg Glu Trp Glu Asn Asn
 85 90 95
 Lys Glu Ala Leu Leu Thr Phe Met Glu Gln Val His Arg Gly Ile Lys
 100 105 110
 Gly Val Val Thr Asp Glu Gln Gly Ile Pro Ile Ala Asn Ala Thr Ile
 115 120 125
 Ser Val Ser Gly Ile Asn His Gly Val Lys Thr Ala Ser Gly Gly Asp
 130 135 140
 Tyr Trp Arg Ile Leu Asn Pro Gly Glu Tyr Arg Val Thr Ala His Ala
 145 150 155 160
 Arg Gly Tyr Thr Pro Ser Ala Lys Thr Cys Asn Val Asp Tyr Asp Ile
 165 170 175
 Gly Ala Thr Gln Cys Asn Phe Ile Leu Ala Arg Ser Asn Trp Lys Arg
 180 185 190

Ile Arg Glu Ile Met Ala Met Asn Gly Asn Arg Pro Ile Pro His Ile
 195 200 205

Asp Pro Ser Arg Pro Met Thr Pro Gln Gln Arg Arg Leu Gln Gln Arg
 210 215 220

Arg Leu Gln His Arg Leu Arg Phe Gly His Arg Cys Gly Cys Gly Ala
 225 230 235 240

Ser Thr Pro Pro Pro Pro
 245

<210> 464

<211> 232

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 464

Arg Asp Arg Ser Cys Arg Gly Pro Gly Arg Arg Ser Pro Ile Pro Ser
 1 5 10 15

Pro Gln Val Leu Gly Thr Thr Trp Val Pro Arg Ala Gly Glu Met Val
 20 25 30

Cys Gly Gly Phe Ala Cys Ser Lys Asn Ala Leu Cys Ala Leu Asn Val
 35 40 45

Val Tyr Met Leu Val Ser Leu Leu Leu Ile Gly Val Ala Ala Trp Gly
 50 55 60

Lys Gly Leu Gly Leu Val Ser Ser Ile His Ile Ile Gly Gly Val Ile
 65 70 75 80

Ala Val Gly Val Phe Leu Leu Leu Ile Ala Val Ala Gly Leu Val Gly
 85 90 95

Ala Val Asn His His Gln Val Leu Leu Phe Phe Tyr Met Ile Ile Leu
 100 105 110

Gly Leu Val Phe Ile Phe Gln Phe Val Ile Ser Cys Ser Cys Leu Ala
115 120 125

Ile Asn Arg Ser Lys Gln Thr Asp Val Ile Asn Ala Ser Trp Trp Val
130 135 140

Met Ser Asn Lys Thr Arg Asp Glu Leu Glu Arg Ser Phe Asp Cys Cys
145 150 155 160

Gly Leu Phe Asn Leu Thr Thr Leu Tyr Gln Gln Asp Tyr Asp Phe Cys
165 170 175

Thr Ala Ile Cys Lys Ser Gln Ser Pro Thr Cys Gln Met Cys Gly Glu
180 185 190

Lys Phe Leu Lys His Ser Asp Glu Ala Leu Lys Ile Leu Gly Gly Val
195 200 205

Gly Leu Phe Phe Ser Phe Thr Glu Ile Leu Gly Val Trp Leu Xaa Met
210 215 220

Xaa Phe Arg Asn Gln Lys Gly Ser
225 230

<210> 465
<211> 215
<212> PRT
<213> Homo sapiens

<400> 465
Gly Leu Ala Pro Pro Arg Ser Arg Thr Met Ala Val Lys Lys Ile Ala
1 5 10 15

Ile Phe Gly Ala Thr Gly Gln Thr Gly Leu Thr Thr Leu Ala Gln Ala
20 25 30

Val Gln Ala Gly Tyr Glu Val Thr Val Leu Val Arg Asp Ser Ser Arg
35 40 45

Leu Pro Ser Glu Gly Pro Arg Pro Ala His Val Val Val Gly Asp Val
50 55 60

Leu Gln Ala Ala Asp Val Asp Lys Thr Val Ala Gly Gln Asp Ala Val
65 70 75 80

Ile Val Leu Leu Gly Thr Arg Asn Asp Leu Ser Pro Thr Thr Val Met
85 90 95

Ser Glu Gly Ala Arg Asn Ile Val Ala Ala Met Lys Ala His Gly Val
 100 105 110
 Asp Lys Val Val Ala Cys Thr Ser Ala Phe Leu Leu Trp Asp Pro Thr
 115 120 125
 Lys Val Pro Pro Arg Leu Gln Ala Val Thr Asp Asp His Ile Arg Met
 130 135 140
 His Lys Val Leu Arg Glu Ser Gly Leu Lys Tyr Val Ala Val Met Pro
 145 150 155 160
 Pro His Ile Gly Asp Gln Pro Leu Thr Gly Ala Tyr Thr Val Thr Leu
 165 170 175
 Asp Gly Arg Gly Pro Ser Arg Val Ile Ser Lys His Asp Leu Gly His
 180 185 190
 Phe Met Leu Arg Cys Leu Thr Thr Asp Glu Tyr Asp Gly His Ser Thr
 195 200 205
 Tyr Pro Ser His Gln Tyr Gln
 210 215

<210> 466

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 466

Arg Thr Thr Ala Val Glu Leu Phe Val Lys Ala Gly Ser Asp Gly Ala
 1 5 10 15

Lys Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe Met Val Leu Trp

20 25 30
 Leu Lys Gly Val Thr Phe Asn Val Thr Thr Val Asp Thr Lys Arg Arg
 35 40 45
 Thr Glu Thr Val Gln Lys Leu Cys Pro Gly Gly Gln Leu Pro Phe Leu
 50 55 60
 Leu Tyr Gly Thr Glu Val His Thr Asp Thr Asn Lys Ile Glu Glu Phe
 65 70 75 80
 Leu Glu Ala Val Leu Cys Pro Pro Arg Tyr Pro Lys Leu Ala Xaa Leu
 85 90 95
 Xaa Pro Glu Ser Asn Thr Xaa Gly Leu Asp Ile Phe Ala Lys Phe Ser
 100 105 110
 Ala Tyr Ile Lys Asn Ser Lys Pro Ser Thr Gln Leu Thr Ile Trp Arg
 115 120 125
 Arg Asp Ser
 130

<210> 467
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 467
 Gly Leu Trp Ile Ser Met Leu Cys Arg Trp Leu Met Trp Met Val Met
 1 5 10 15
 Asn Tyr Ser Trp Lys Lys Asn Arg Met Trp Arg Lys Asn Arg Ser Phe
 20 25 30
 Tyr Ala Asn Asn His Cys Ile Gly Thr Asp Leu Asn Arg Asn Phe Ala
 35 40 45
 Ser Lys His Trp Cys Glu Glu Gly Ala Ser Ser Ser Ser Cys Ser Glu
 50 55 60
 Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu Val Lys Ala Val
 65 70 75 80
 Ala Ser Phe Leu Arg Arg Asn Ile Asn Gln Ile Lys Ala Tyr Ile Ser
 85 90 95
 Met His Ser Tyr Ser Gln His Ile Val Phe Pro Tyr Ser Tyr Thr Arg
 100 105 110

Ser Lys Ser Lys Asp His Glu Glu Leu Ser Leu Val Ala Ser Glu Ala
 115 120 125
 Val Arg Ala Ile Glu Lys Thr Ser Lys Asn Thr Arg Tyr Thr His Gly
 130 135 140
 His Gly Ser Glu Thr Leu Tyr Leu Ala Pro Gly Gly Gly Asp Asp Trp
 145 150 155 160
 Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile Glu Leu Arg Asp
 165 170 175
 Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg Tyr Ile Lys Pro Thr
 180 185 190
 Cys Arg Glu Ala Phe Ala Ala Val Ser Lys Ile Ala Trp His Val Ile
 195 200 205
 Arg Asn Val
 210

<210> 468
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 468
 Leu Pro Ser Leu Lys Gly Thr Lys Ala Gly Ala Pro Pro Arg Cys Gly
 1 5 10 15
 Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser
 20 25 30
 Phe Lys Val Thr Ser Arg Thr Gly Thr Leu Ala Ala Gln Ala Leu Arg
 35 40 45
 Ala Arg Gly Pro Ser Gly Ala Ala Ala Met Arg Ser Met Ala Ser Gly
 50 55 60
 Gly Gly Val Pro Thr Asp Glu Glu Gln Ala Thr Gly Leu Glu Arg Glu
 65 70 75 80
 Ile Met Leu Ala Ala Lys Lys Gly Leu Asp Pro Tyr Asn Val Leu Ala
 85 90 95
 Pro Lys Gly Ala Ser Gly Thr Arg Glu Asp Pro Asn Leu Val Pro Ser
 100 105 110

Ile Ser Asn Lys Arg Ile Val Gly Cys Ile Cys Glu Glu Asp Asn Thr
115 120 125

Ser Val Val Trp Phe Trp Leu His Lys Gly Glu Ala Gln Arg Cys Pro
130 135 140

Arg Cys Gly Ala His Tyr Lys Leu Val Pro Gln Gln Leu Ala His
145 150 155

<210> 469
<211> 58
<212> PRT
<213> Homo sapiens

<400> 469
Lys Phe Thr Lys Cys Leu Val Gln Leu Asn Ile Leu Leu Phe Lys Cys
1 5 10 15

Val Leu Leu Asn Phe Leu Leu Ser Leu Leu Asn Asn Leu Cys Gly Lys
20 25 30

Met Cys Val Ser Thr Phe Pro Ser Phe Phe Ile Ser Tyr Phe Gln Glu
35 40 45

Ser Asn Val Ala Ile Asn Cys Ile Leu Val
50 55

<210> 470
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470
Cys Ser Gly Thr Trp Lys Lys His Asp Arg Lys Ile Ala Asp Gln Glu
1 5 10 15

Ile Trp Glu Arg Gly Met Ser Ile Asp Leu Ser Phe Phe Phe Phe Phe
20 25 30

Phe Phe Phe Phe Phe Phe Phe Phe Xaa
35 40

<210> 471
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 471
Gln Ala Gly Leu Ser Arg Tyr Gly Ser Pro Leu Gly Arg Arg Lys Lys
1 5 10 15
Gly Gly Ser Cys Leu Leu Pro Gly Glu Gly Leu Arg Gly Arg Gly Lys
20 25 30
Pro Arg Ala Pro Thr Lys Ala Asp Ile Asp Ser Gln Gly Leu Gly Leu
35 40 45
Lys Pro Gly Thr Val Xaa Leu Ser Gly Ser Tyr Trp
50 55 60

<210> 472
<211> 398
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (391)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472
Asn Gln Leu Ser Ser Ile Met Val Met Phe Lys Lys Ile Lys Ser Phe
1 5 10 15
Glu Val Val Phe Asn Asp Pro Glu Lys Val Tyr Gly Ser Gly Glu Lys
20 25 30
Val Ala Gly Arg Val Ile Val Glu Val Cys Glu Val Thr Arg Val Lys
35 40 45
Ala Val Arg Ile Leu Ala Cys Gly Val Ala Lys Val Leu Trp Met Gln
50 55 60
Gly Ser Gln Gln Cys Lys Gln Thr Ser Glu Tyr Leu Arg Tyr Glu Asp

65		70		75		80									
Thr	Leu	Leu	Leu	Glu	Asp	Gln	Pro	Thr	Gly	Glu	Asn	Glu	Met	Val	Ile
				85					90					95	
Met	Arg	Pro	Gly	Asn	Lys	Tyr	Glu	Tyr	Lys	Phe	Gly	Phe	Glu	Leu	Pro
			100						105				110		
Gln	Gly	Pro	Leu	Gly	Thr	Ser	Phe	Lys	Gly	Lys	Tyr	Gly	Cys	Val	Asp
		115						120				125			
Tyr	Trp	Val	Lys	Ala	Phe	Leu	Asp	Arg	Pro	Ser	Gln	Pro	Thr	Gln	Glu
	130						135				140				
Thr	Lys	Lys	Asn	Phe	Glu	Val	Val	Asp	Leu	Val	Asp	Val	Asn	Thr	Pro
145					150					155					160
Asp	Leu	Met	Ala	Pro	Val	Ser	Ala	Lys	Lys	Glu	Lys	Lys	Val	Ser	Cys
				165					170					175	
Met	Phe	Ile	Pro	Asp	Gly	Arg	Val	Ser	Val	Ser	Ala	Arg	Ile	Asp	Arg
			180						185				190		
Lys	Gly	Phe	Cys	Glu	Gly	Asp	Glu	Ile	Ser	Ile	His	Ala	Asp	Phe	Glu
		195					200					205			
Asn	Thr	Cys	Ser	Arg	Ile	Val	Val	Pro	Lys	Ala	Ala	Ile	Val	Ala	Arg
	210					215					220				
His	Thr	Tyr	Leu	Ala	Asn	Gly	Gln	Thr	Lys	Val	Leu	Thr	Gln	Lys	Leu
225					230					235					240
Ser	Ser	Val	Arg	Gly	Asn	His	Ile	Ile	Ser	Gly	Thr	Cys	Ala	Ser	Trp
				245					250					255	
Arg	Gly	Lys	Ser	Leu	Arg	Val	Gln	Lys	Ile	Arg	Pro	Ser	Ile	Leu	Gly
			260					265					270		
Cys	Asn	Ile	Leu	Arg	Val	Glu	Tyr	Ser	Leu	Leu	Ile	Tyr	Val	Ser	Val
		275					280					285			
Pro	Gly	Ser	Lys	Lys	Val	Ile	Leu	Asp	Leu	Pro	Leu	Val	Ile	Gly	Ser
	290					295					300				
Arg	Ser	Gly	Leu	Ser	Ser	Arg	Thr	Ser	Ser	Met	Ala	Ser	Arg	Thr	Ser
305					310					315					320
Ser	Glu	Met	Ser	Trp	Val	Asp	Leu	Asn	Ile	Pro	Asp	Thr	Pro	Glu	Ala
				325					330					335	
Pro	Pro	Cys	Tyr	Met	Asp	Val	Ile	Pro	Glu	Asp	His	Arg	Leu	Glu	Ser

340						345						350					
Pro	Thr	Thr	Pro	Leu	Leu	Asp	Asp	Met	Asp	Gly	Ser	Gln	Asp	Ser	Pro		
355						360						365					
Ile	Phe	Met	Tyr	Ala	Pro	Glu	Phe	Lys	Phe	Met	Pro	Pro	Pro	Thr	Tyr		
370						375						380					
Thr	Glu	Val	Gly	Ser	Leu	Xaa	Ser	Leu	Leu	Leu	Asn	Leu	Ser				
385						390						395					

<210> 473

<211> 259

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle \quad (234)$

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 473

Lys Glu Ala Gly Ala Ala Thr Gly Pro Arg Ala Met Trp Leu Cys Pro
1 5 10 15

Leu Ala Leu Xaa Leu Ile Leu Met Ala Ala Ser Gly Ala Ala Cys Glu
20 25 30

Val	Lys	Asp	Val	Cys	Val	Gly	Ser	Pro	Gly	Ile	Pro	Gly	Thr	Pro	Gly
		35					40					45			

Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Xaa Lys Gly Asp
50 55 60

Pro	Gly	Pro	Pro	Gly	Pro	Met	Gly	Pro	Pro	Gly	Glu	Thr	Pro	Cys	Pro
65					70					75					80

Pro Gly Asn Asn Gly Leu Pro Gly Ala Pro Gly Val Pro Gly Glu Arg
85 90 95

Gly Glu Lys Gly Glu Ala Gly Glu Arg Gly Pro Pro Gly Leu Pro Ala
100 105 110

His Leu Asp Glu Glu Leu Gln Ala Thr Leu His Asp Phe Arg His Gln
115 120 125

Ile Leu Gln Thr Arg Gly Ala Leu Ser Leu Gln Gly Ser Ile Met Thr
130 135 140

Val Gly Glu Lys Val Phe Ser Ser Asn Gly Gln Ser Ile Thr Phe Asp
145 150 155 160

Ala Ile Gln Glu Ala Cys Ala Arg Ala Gly Gly Arg Ile Ala Val Pro
165 170 175

Arg Asn Pro Glu Glu Asn Glu Ala Ile Ala Ser Phe Val Lys Lys Tyr
180 185 190

Asn Thr Tyr Ala Tyr Val Gly Leu Thr Glu Gly Pro Ser Pro Gly Asp
195 200 205

Phe Arg Tyr Ser Asp Gly Thr Pro Val Asn Tyr Thr Asn Trp Tyr Arg
210 215 220

Gly Glu Pro Ala Gly Arg Gly Lys Glu Xaa Cys Val Glu Met Tyr Thr
225 230 235 240

Asp Gly Gln Trp Asn Asp Arg Asn Cys Leu Tyr Ser Arg Leu Thr Ile
245 250 255

Cys Glu Phe

<210> 474
<211> 231
<212> PRT
<213> Homo sapiens

<400> 474
Gly Thr Val Pro Gly Lys Gly Gln Glu Tyr His Gly Met Gly Met Ser
1 5 10 15

Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Phe Phe Asn Leu Leu Phe
20 25 30

Trp Ile Cys Gly Cys Cys Ile Leu Gly Phe Gly Ile Tyr Leu Leu Ile
35 40 45

His Asn Asn Phe Gly Val Leu Phe His Asn Leu Pro Ser Leu Thr Leu
50 55 60

Gly Asn Val Phe Val Ile Val Gly Ser Ile Ile Met Val Val Ala Phe
65 70 75 80

Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys Leu Leu Met Ser
85 90 95

Phe Phe Ile Leu Leu Leu Ile Ile Leu Leu Ala Glu Val Thr Leu Ala
100 105 110

Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Glu Tyr Val Ala Lys
115 120 125

Gly Leu Thr Asp Ser Ile His Arg Tyr His Ser Asp Asn Ser Thr Lys
130 135 140

Ala Ala Trp Asp Ser Ile Gln Ser Phe Leu Gln Cys Cys Gly Ile Asn
145 150 155 160

Gly Thr Ser Asp Trp Thr Ser Gly Pro Pro Ala Ser Cys Pro Ser Asp
165 170 175

Arg Lys Val Glu Gly Cys Tyr Ala Lys Ala Arg Leu Trp Phe His Ser
180 185 190

Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val Cys Val Ile Glu
195 200 205

Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys Gln Ile Asp Lys
210 215 220

Thr Ser Gln Thr Ile Gly Leu
225 230

<210> 475

<211> 498

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

Gly	Thr	Ala	Asn	Glu	Ala	Pro	Trp	Xaa	Arg	Thr	Gln	Ser	Ser	Ala	Leu
1				5				10						15	

Ala	Gly	Pro	Ser	Arg	Ser	Arg	His	His	Gly	Phe	Leu	Gln	Ser	Ser	Ala
			20				25					30			

Gly	Gly	Ala	Ser	Thr	Leu	Gly	Leu	Pro	Ala	Ala	Arg	Gly	Lys	Asp	Phe
		35				40						45			

Asn	Val	Pro	Leu	Ser	Ile	Ser	Arg	Leu	Thr	Pro	Gly	Gly	Lys	Ala	Ala
	50					55					60				

Gln	Ala	Xaa	Val	Ala	Val	Gly	Asp	Trp	Val	Leu	Ser	Ile	Asp	Gly	Glu
65					70				75						80

Asn	Ala	Gly	Ser	Leu	Thr	His	Ile	Glu	Ala	Gln	Asn	Lys	Ile	Arg	Ala
			85					90						95	

Cys	Gly	Glu	Arg	Leu	Ser	Leu	Gly	Leu	Ser	Arg	Ala	Gln	Pro	Val	Gln
			100				105						110		

Ser	Lys	Pro	Gln	Lys	Ala	Xaa	Xaa	Leu	Pro	Cys	Pro	Pro	Ala	Leu	Pro
		115					120						125		

Gly	Cys	Val	Ser	Ala	Gln	Ala	Ser	Ala	Pro	Ala	Ala	Asp	Pro	Pro	Arg
	130					135						140			

Tyr	Thr	Phe	Ala	Pro	Ser	Val	Ser	Leu	Asn	Lys	Thr	Ala	Arg	Pro	Phe
145					150					155					160

Gly	Ala	Pro	Pro	Pro	Ala	Asp	Ser	Ala	Pro	Gln	Gln	Asn	Gly	Gln	Pro
				165					170					175	

Leu	Arg	Pro	Leu	Val	Pro	Asp	Ala	Ser	Lys	Gln	Arg	Leu	Met	Glu	Asn
		180						185					190		

Thr	Glu	Asp	Trp	Arg	Pro	Arg	Pro	Gly	Thr	Gly	Gln	Ser	Arg	Ser	Phe
		195					200					205			

Arg Ile Leu Ala His Leu Thr Gly Thr Glu Phe Met Gln Asp Pro Asp
 210 215 220

Glu Glu His Leu Lys Lys Ser Ser Gln Val Pro Arg Thr Glu Ala Pro
 225 230 235 240

Ala Pro Ala Ser Ser Thr Pro Gln Glu Pro Trp Pro Gly Pro Thr Ala
 245 250 255

Pro Ser Pro Thr Ser Arg Pro Pro Trp Ala Val Asp Pro Ala Phe Ala
 260 265 270

Glu Arg Tyr Ala Pro Asp Lys Thr Ser Thr Val Leu Thr Arg His Ser
 275 280 285

Gln Pro Ala Thr Pro Thr Pro Leu Gln Ser Arg Thr Ser Ile Val Gln
 290 295 300

Ala Ala Ala Gly Gly Val Pro Gly Gly Gly Ser Asn Asn Gly Lys Thr
 305 310 315 320

Pro Val Cys His Gln Cys His Lys Val Ile Arg Gly Arg Tyr Leu Val
 325 330 335

Ala Leu Gly His Ala Tyr His Pro Glu Glu Phe Val Cys Ser Gln Cys
 340 345 350

Gly Lys Val Leu Glu Glu Gly Gly Phe Phe Glu Glu Lys Gly Ala Ile
 355 360 365

Phe Cys Pro Pro Cys Tyr Asp Val Arg Tyr Ala Pro Ser Cys Ala Lys
 370 375 380

Cys Lys Lys Lys Ile Thr Gly Glu Ile Met His Ala Leu Lys Met Thr
 385 390 395 400

Trp His Val His Cys Phe Thr Cys Ala Ala Cys Lys Thr Pro Ile Arg
 405 410 415

Asn Arg Ala Phe Tyr Met Glu Glu Gly Val Pro Tyr Cys Glu Arg Asp
 420 425 430

Tyr Glu Lys Met Phe Gly Thr Lys Cys His Gly Cys Asp Phe Lys Ile
 435 440 445

Asp Ala Gly Asp Arg Phe Leu Glu Ala Leu Gly Phe Ser Trp His Asp
 450 455 460

Thr Cys Phe Val Cys Ala Ile Cys Gln Ile Asn Leu Glu Gly Lys Thr
 465 470 475 480

Phe Tyr Ser Lys Lys Asp Arg Pro Leu Cys Lys Ser His Ala Phe Ser
 485 490 495

His Val

<210> 476

<211> 268

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 476

Gln Glu Ala Ala Ser Leu Gly Ala Val Thr Ser Cys Gly Gln Glu Ser
 1 5 10 15

Leu Ser Arg Ala Ser Pro Arg Ser Leu Ser Arg Phe Leu Leu Thr Ala
 20 25 30

His Pro Pro Ala Ala Ala Met Arg His Leu Gly Ala Phe Leu Phe Leu
 35 40 45

Leu Gly Val Leu Gly Ala Leu Thr Glu Met Cys Glu Ile Pro Glu Met
 50 55 60

Asp Ser His Leu Val Glu Lys Leu Gly Gln His Leu Leu Pro Trp Met
 65 70 75 80

Asp Arg Leu Ser Leu Glu His Leu Asn Pro Ser Ile Tyr Val Gly Leu
 85 90 95

Arg Leu Ser Ser Leu Gln Ala Gly Thr Lys Glu Asp Leu Tyr Leu His
 100 105 110

Ser Leu Lys Leu Gly Tyr Gln Gln Cys Leu Leu Gly Ser Ala Phe Ser
 115 120 125
 Glu Asp Asp Gly Asp Cys Gln Gly Lys Pro Ser Met Gly Gln Leu Ala
 130 135 140
 Ser Xaa Leu Leu Ala Leu Arg Ala Asn Cys Glu Phe Val Xaa Gly His
 145 150 155 160
 Lys Gly Asp Xaa Leu Val Ser Gln Leu Lys Trp Phe Leu Glu Asp Glu
 165 170 175
 Lys Arg Ala Ile Gly His Asp His Lys Gly His Pro His Thr Ser Tyr
 180 185 190
 Tyr Gln Tyr Gly Leu Gly Ile Leu Ala Leu Cys Leu His Gln Lys Arg
 195 200 205
 Val His Asp Ser Val Val Asp Lys Leu Leu Tyr Ala Val Glu Pro Phe
 210 215 220
 His Gln Gly His His Ser Val Asp Thr Ala Ala Met Ala Gly Leu Ala
 225 230 235 240
 Phe Thr Cys Leu Lys Arg Ser Asn Phe Asn Pro Gly Arg Arg His Gly
 245 250 255
 Ser Pro Trp Pro Ser Glu Gln Cys Glu Arg Arg Ser
 260 265

<210> 477

<211> 549

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 477

Ile Leu Glu Phe Pro Val Glu Glu Gln Asp Arg Val Leu Ser Phe Arg
 1 5 10 15

Cys Gln Ala Arg Ile Ile Ser Gly Ile His Met Gln Thr Ser Glu Ser
 20 25 30
 Thr Lys Ser Glu Leu Val Thr Val Thr Glu Ser Phe Ser Thr Pro Lys
 35 40 45
 Phe His Ile Ser Pro Thr Gly Met Ile Met Glu Gly Ala Gln Leu His
 50 55 60
 Ile Lys Cys Thr Ile Gln Val Thr His Leu Ala Gln Glu Phe Pro Glu
 65 70 75 80
 Ile Ile Ile Gln Lys Asp Lys Ala Ile Val Ala His Asn Arg His Gly
 85 90 95
 Asn Lys Ala Val Tyr Ser Val Met Ala Met Val Glu His Ser Gly Asn
 100 105 110
 Tyr Thr Cys Lys Val Glu Ser Ser Arg Ile Ser Lys Val Ser Ser Ile
 115 120 125
 Val Val Asn Ile Thr Glu Leu Phe Ser Lys Pro Glu Leu Glu Ser Ser
 130 135 140
 Phe Thr His Leu Asp Gln Gly Glu Arg Leu Asn Leu Ser Cys Ser Ile
 145 150 155 160
 Pro Gly Ala Pro Pro Ala Asn Phe Thr Ile Gln Lys Glu Asp Thr Ile
 165 170 175
 Val Ser Gln Thr Gln Asp Phe Thr Lys Ile Ala Ser Lys Ser Asp Ser
 180 185 190
 Gly Thr Tyr Ile Cys Thr Ala Gly Ile Asp Lys Val Val Lys Lys Ser
 195 200 205
 Asn Thr Val Gln Ile Val Val Cys Xaa Met Leu Ser Gln Pro Arg Xaa
 210 215 220
 Ser Tyr Asp Ala Gln Phe Glu Val Ile Lys Gly Gln Thr Ile Glu Val
 225 230 235 240
 Arg Cys Glu Ser Ile Ser Gly Thr Leu Pro Ile Ser Tyr Gln Leu Leu
 245 250 255
 Lys Thr Ser Lys Val Leu Glu Asn Ser Thr Lys Asn Ser Asn Asp Pro
 260 265 270
 Ala Val Phe Lys Asp Asn Pro Thr Glu Asp Val Glu Tyr Gln Cys Val
 275 280 285

Ala Asp Asn Cys His Ser His Ala Lys Met Leu Ser Glu Val Leu Arg
290 295 300

Val Lys Val Ile Ala Pro Val Asp Glu Val Gln Ile Ser Ile Leu Ser
305 310 315 320

Ser Lys Val Val Glu Ser Gly Glu Asp Ile Val Leu Gln Cys Ala Val
325 330 335

Asn Glu Gly Ser Gly Pro Ile Thr Tyr Lys Phe Tyr Arg Glu Lys Glu
340 345 350

Gly Lys Pro Phe Tyr Gln Met Thr Ser Asn Ala Thr Gln Ala Phe Trp
355 360 365

Thr Lys Gln Lys Ala Ser Lys Glu Gln Glu Gly Glu Tyr Tyr Cys Thr
370 375 380

Ala Phe Asn Arg Ala Asn His Ala Ser Ser Val Pro Arg Ser Lys Ile
385 390 395 400

Leu Thr Val Arg Val Ile Leu Ala Pro Trp Lys Lys Gly Leu Ile Ala
405 410 415

Val Val Ile Ile Gly Val Ile Ile Ala Leu Leu Ile Ile Ala Ala Lys
420 425 430

Cys Tyr Phe Leu Arg Lys Ala Lys Ala Lys Gln Met Pro Val Glu Met
435 440 445

Ser Arg Pro Ala Val Pro Leu Leu Asn Ser Asn Asn Glu Lys Met Ser
450 455 460

Asp Pro Asn Met Glu Ala Asn Ser His Tyr Gly His Asn Asp Asp Val
465 470 475 480

Arg Asn His Ala Met Lys Pro Ile Asn Asp Asn Lys Glu Pro Leu Asn
485 490 495

Ser Asp Val Gln Tyr Thr Glu Val Gln Val Ser Ser Ala Glu Ser His
500 505 510

Lys Asp Leu Gly Lys Lys Asp Thr Glu Thr Val Tyr Ser Glu Val Arg
515 520 525

Lys Ala Val Pro Asp Ala Val Glu Ser Arg Tyr Ser Arg Thr Glu Gly
530 535 540

Ser Leu Asp Gly Thr
545

<210> 478

<211> 364

<212> PRT

<213> Homo sapiens

<400> 478

Gly Arg Val Gly Gly Arg Val Gly Gly Pro Trp Val Ala Ala Thr Ser
 1 5 10 15

Ala Asp Pro Glu Arg Lys Ser Gln Ala Ala Ser Ala Ala Met Trp Ala
 20 25 30

Thr Leu Pro Leu Leu Cys Ala Gly Ala Trp Leu Leu Gly Val Pro Val
 35 40 45

Cys Gly Ala Ala Glu Leu Ser Val Asn Ser Leu Glu Lys Phe His Phe
 50 55 60

Lys Ser Trp Met Ser Lys His Arg Lys Thr Tyr Ser Thr Glu Glu Tyr
 65 70 75 80

His His Arg Leu Gln Thr Phe Ala Ser Asn Trp Arg Lys Ile Asn Ala
 85 90 95

His Asn Asn Gly Asn His Thr Phe Lys Met Ala Leu Asn Gln Phe Ser
 100 105 110

Asp Met Ser Phe Ala Glu Ile Lys His Lys Tyr Leu Trp Ser Glu Pro
 115 120 125

Gln Asn Cys Ser Ala Thr Lys Ser Asn Tyr Leu Arg Gly Thr Gly Pro
 130 135 140

Tyr Pro Pro Ser Val Asp Trp Arg Lys Lys Gly Asn Phe Val Ser Pro
 145 150 155 160

Val Lys Asn Gln Gly Ala Cys Gly Ser Cys Trp Thr Phe Ser Thr Thr
 165 170 175

Gly Ala Leu Glu Ser Ala Ile Ala Ile Ala Thr Gly Lys Met Leu Ser
 180 185 190

Leu Ala Glu Gln Gln Leu Val Asp Cys Ala Gln Asp Phe Asn Asn His
 195 200 205

Gly Cys Gln Gly Gly Leu Pro Ser Gln Ala Phe Glu Tyr Ile Leu Tyr
 210 215 220

Asn Lys Gly Ile Met Gly Glu Asp Thr Tyr Pro Tyr Gln Gly Lys Asp

Leu Ser Leu Ala Met Ala Pro Ser Ser Pro Arg Pro Ala Leu Pro Ala
 20 25 30

Leu Leu Val Leu Leu Gly Ala Leu Phe Pro Gly Pro Gly Asn Ala Gln
 35 40 45

Thr Ser Val Ser Pro Ser Lys Val Ile Leu Pro Arg Gly Gly Ser Val
 50 55 60

Leu Val Thr Cys Ser Thr Ser Cys Asp Gln Pro Lys Leu Leu Gly Ile
 65 70 75 80

Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Pro Gly Asn Asn Arg
 85 90 95

Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met Cys
 100 105 110

Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu Thr
 115 120 125

Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser Trp
 130 135 140

Gln Pro Val Gly Lys Asn Leu Thr Leu Arg Cys Gln Val Glu Gly Gly
 145 150 155 160

Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys Glu
 165 170 175

Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr Thr
 180 185 190

Val Leu Val Arg Arg Asp His His Gly Ala Asn Phe Ser Cys Arg Thr
 195 200 205

Glu Leu Asp Leu Arg Pro Gln Gly Leu Glu Leu Phe Glu Asn Thr Ser
 210 215 220

Ala Pro Tyr Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro Gln
 225 230 235 240

Leu Val Ser Pro Arg Val Leu Glu Val Asp Thr Gln Gly Thr Val Val
 245 250 255

Cys Ser Leu Asp Gly Leu Phe Pro Val Xaa Glu Ala Gln Val Xaa Leu
 260 265 270

Ala Leu Gly Asp Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn Asp
 275 280 285

Ser Phe Ser Ala Lys Ala Ser Val Ser Val Thr Ala Glu Asp Glu Gly
 290 295 300
 Thr Gln Arg Leu Thr Cys Ala Val Ile Leu Gly Asn Gln Ser Gln Glu
 305 310 315 320
 Thr Leu Gln Thr Val Thr Ile Tyr Ser Phe Pro Ala Pro Asn Val Ile
 325 330 335
 Leu Thr Lys Pro Glu Val Ser Glu Gly Thr Glu Val Thr Val Lys Cys
 340 345 350
 Glu Ala His Pro Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala Gln
 355 360 365
 Pro Leu Gly Pro Arg Ala Ser Cys Leu Leu Lys Ala Thr Pro Glu Asp
 370 375 380
 Asn Gly Arg Xaa Ser Pro Ala Leu Gln Pro Trp Arg Trp Pro Ala Ser
 385 390 395 400
 Leu Tyr Thr Arg Thr Arg Pro Gly Ser Phe Val Ser Cys Met Ala Pro
 405 410 415
 Asp Trp Thr Arg Gly Ile Val Arg Glu Thr Gly Arg Gly Gln Lys Ile
 420 425 430
 Pro Ser Arg Leu Gln Cys Ala Arg Leu Gly Gly Thr His Cys Pro Ser
 435 440 445
 Ser Ser Val
 450

<210> 480

<211> 278

<212> PRT

<213> Homo sapiens

<400> 480

Gly Tyr Cys Thr His Pro Ser Phe Ile Ser Leu Gln His Leu Phe Leu
 1 5 10 15
 Glu Gly Val Asn Thr Asn Ser Ser Asp Leu Gly Ser Leu Pro Glu Lys
 20 25 30
 Met Gln Pro Phe Leu Leu Leu Leu Ala Phe Leu Leu Thr Pro Gly Ala
 35 40 45

Gly Thr Glu Glu Ile Ile Gly Gly His Glu Ala Lys Pro His Ser Arg
 50 55 60
 Pro Tyr Met Ala Phe Val Gln Phe Leu Gln Glu Lys Ser Arg Lys Arg
 65 70 75 80
 Cys Gly Gly Ile Leu Val Arg Lys Asp Phe Val Leu Thr Ala Ala His
 85 90 95
 Cys Gln Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His Asn Ile Lys
 100 105 110
 Glu Gln Glu Arg Thr Gln Gln Phe Ile Pro Val Lys Arg Pro Ile Pro
 115 120 125
 His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile Met Leu Leu
 130 135 140
 Gln Leu Glu Arg Lys Ala Lys Trp Thr Thr Ala Val Arg Pro Leu Arg
 145 150 155 160
 Leu Pro Ser Ser Lys Ala Gln Val Lys Pro Gly Gln Leu Cys Ser Val
 165 170 175
 Ala Gly Trp Gly Tyr Val Ser Met Ser Thr Leu Ala Thr Thr Leu Gln
 180 185 190
 Glu Val Leu Leu Thr Val Gln Lys Asp Cys Gln Cys Glu Arg Leu Phe
 195 200 205
 His Gly Asn Tyr Ser Arg Ala Thr Glu Ile Cys Val Gly Asp Pro Lys
 210 215 220
 Lys Thr Gln Thr Gly Phe Lys Gly Asp Ser Gly Gly Pro Leu Val Cys
 225 230 235 240
 Lys Asp Val Ala Gln Gly Ile Leu Ser Tyr Gly Asn Lys Lys Gly Thr
 245 250 255
 Pro Pro Gly Val Tyr Ile Lys Val Ser His Phe Leu Pro Trp Ile Lys
 260 265 270
 Arg Thr Met Lys Arg Leu
 275

<210> 481

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481

Asn	Ser	Leu	Ser	Pro	Ser	Pro	Trp	Ser	His	Trp	Leu	Ser	Ala	Ala	Ala
1				5				10					15		

Pro	Leu	Leu	Gln	Arg	Ser	Ala	Arg	Ala	Phe	Ser	Val	Val	Ile	Glu	Thr
			20				25						30		

Leu	Leu	Met	Asp	Thr	Pro	Ser	Ser	Tyr	Glu	Ala	Ala	Met	Glu	Leu	Phe
		35					40					45			

Ser	Pro	Asp	Gln	Asp	Met	Arg	Glu	Ala	Gly	Ala	Gln	Leu	Lys	Lys	Leu
	50					55					60				

Val	Asp	Thr	Leu	Pro	Gln	Lys	Pro	Arg	Glu	Ser	Ile	Ile	Lys	Xaa	Met
65					70				75						80

Gly	Lys	Asn	Ser	Pro	Lys	Leu	Thr	Val	Leu	Ile	Arg	His	Phe	Arg	Lys
				85				90					95		

Leu	Glu	Asp	Pro	Pro	Thr	Gly	Ser	Ser	Leu	Leu	Pro	Leu	Pro	Trp	Phe
			100					105					110		

Leu	Glu	Phe	His	Gly	Pro	Pro
						115

<210> 482

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Lys	Val	Arg	Leu	Xaa	Val	Pro	Xaa	Arg	Asn	Ser	Arg	Val	Asp	Pro	Arg
1				5				10					15		

Val Arg Glu His Ser Thr Cys Ser Lys Met Asp Val Gly Ser Lys Glu
 20 25 30

Val Leu Met Glu Ser Pro Pro Asp Tyr Ser Ala Ala Pro Arg Gly Arg
 35 40 45

Phe Gly Ile Pro Cys Cys Pro Val His Leu Lys Arg Leu Leu Ile Val
 50 55 60

Val Val Val Val Val Leu Ile Val Val Val Ile Val Gly Ala Leu Leu
 65 70 75 80

Met Gly Leu His Met Ser Gln Lys His Thr Glu Met Val Leu Glu Met
 85 90 95

Ser Ile Gly Ala Pro Glu Ala Gln Gln Arg Leu Ala Leu Ser Glu His
 100 105 110

Leu Val Thr Thr Ala Thr Phe Ser Ile Gly Ser Thr Gly Leu Val Val
 115 120 125

Tyr Asp Tyr Gln Gln Leu Leu Ile Ala Tyr Lys Pro Ala Pro Gly Thr
 130 135 140

Cys Cys Tyr Ile Met Lys Ile Ala Pro Glu Ser Ile Pro Ser Leu Glu
 145 150 155 160

Ala Leu Thr Arg Lys Val His Asn Phe Gln Ala Lys Pro Ala Val Pro
 165 170 175

Thr Ser Lys Leu Gly Gln Ala Glu Gly Arg Asp Ala Gly Ser Ala Pro
 180 185 190

Ser Gly Gly Asp Pro Ala Phe Leu Gly Met Ala Val Ser Thr Leu Cys
 195 200 205

Gly Glu Val Pro Leu Tyr Tyr Ile
 210 215

<210> 483

<211> 57

<212> PRT

<213> Homo sapiens

<400> 483

Gly Ser Gln Glu Met Thr Ala Asp Leu Ser Pro Glu Gly Phe Met Leu
 1 5 10 15

Gly Val Glu Gly Ile Leu Leu Arg Leu Leu Gly Tyr Gln Glu Thr Gln
 20 25 30

Pro Phe Pro Cys Glu Tyr Leu Ile Leu Leu Leu Val Ser Val Gln Leu
 35 40 45

Leu Leu Asn Asn Arg Gln His Glu Glu
 50 55

<210> 484

<211> 332

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 484

Leu Ala Cys Val Ser Pro Trp Met Asp Met Trp Thr Ala Leu Leu Ile
 1 5 10 15

Leu Gln Ala Leu Leu Leu Pro Ser Leu Ala Asp Gly Ala Thr Pro Ala
 20 25 30

Leu Arg Phe Val Ala Val Gly Asp Trp Gly Gly Val Pro Asn Ala Pro
 35 40 45

Phe His Thr Ala Arg Glu Met Ala Asn Ala Lys Glu Ile Ala Arg Thr
 50 55 60

Val Gln Ile Leu Gly Ala Asp Phe Ile Leu Ser Leu Gly Asp Asn Phe
 65 70 75 80

Tyr Phe Thr Gly Val Gln Asp Ile Asn Asp Lys Arg Phe Gln Glu Thr
 85 90 95

Phe Glu Asp Val Phe Ser Asp Arg Ser Leu Arg Lys Val Pro Trp Tyr
 100 105 110

Val Leu Ala Gly Asn His Asp His Leu Gly Asn Val Ser Ala Gln Ile
 115 120 125

Ala Tyr Ser Lys Ile Ser Lys Arg Trp Asn Phe Pro Ser Pro Phe Tyr
 130 135 140

Arg Leu His Phe Lys Ile Pro Gln Thr Asn Val Ser Val Ala Ile Phe
 145 150 155 160

Met Leu Asp Thr Val Thr Leu Cys Gly Asn Ser Asp Asp Phe Leu Ser
165 170 175

Gln Gln Pro Glu Arg Pro Arg Asp Val Lys Leu Ala Arg Thr Gln Leu
180 185 190

Ser Trp Leu Lys Lys Gln Leu Ala Ala Ala Arg Xaa Asp Tyr Val Leu
195 200 205

Val Ala Gly His Tyr Pro Val Trp Ser Ile Ala Glu His Gly Pro Thr
210 215 220

His Cys Leu Val Lys Gln Leu Arg Pro Leu Leu Ala Thr Tyr Gly Val
225 230 235 240

Thr Ala Tyr Leu Cys Gly His Asp His Asn Leu Gln Tyr Leu Gln Asp
245 250 255

Glu Asn Gly Val Gly Tyr Val Leu Ser Gly Ala Gly Asn Phe Met Asp
260 265 270

Pro Ser Lys Arg His Gln Arg Lys Val Pro Asn Gly Tyr Leu Arg Phe
275 280 285

His Tyr Gly Thr Glu Asp Ser Leu Gly Gly Phe Ala Tyr Val Glu Ile
290 295 300

Ser Ser Lys Glu Met Thr Val Thr Tyr Ile Glu Ala Ser Gly Lys Ser
305 310 315 320

Leu Phe Lys Thr Arg Leu Pro Arg Arg Ala Arg Pro
325 330

<210> 485

<211> 431

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

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Ser Thr Ser Arg Ala Cys Pro Glu Leu Arg Gly Ser Glu Asp Leu Ser
 1              5              10              15

Thr Met Glu Arg Ala Ser Cys Leu Leu Leu Leu Leu Pro Leu Val
      20              25              30

His Val Ser Ala Thr Thr Pro Glu Pro Cys Glu Leu Asp Asp Glu Asp
      35              40              45

Phe Arg Cys Val Cys Asn Phe Ser Glu Pro Gln Pro Asp Trp Ser Glu
      50              55              60

Ala Phe Gln Cys Val Ser Ala Val Glu Val Glu Ile His Ala Gly Gly
 65              70              75              80

Leu Asn Leu Glu Pro Phe Leu Lys Arg Val Asp Ala Asp Ala Asp Pro
      85              90              95

Arg Gln Tyr Ala Asp Thr Val Lys Ala Leu Arg Val Arg Arg Leu Thr
      100             105             110

Val Gly Ala Ala Gln Val Pro Ala Gln Leu Leu Val Gly Ala Leu Arg
      115             120             125

Val Leu Ala Tyr Ser Arg Leu Lys Glu Leu Thr Leu Glu Asp Leu Lys
      130             135             140

Ile Thr Gly Thr Met Pro Pro Leu Pro Leu Glu Ala Thr Gly Leu Ala
 145             150             155             160

Leu Ser Ser Leu Arg Leu Arg Asn Val Ser Trp Ala Thr Gly Arg Ser
      165             170             175

Trp Leu Ala Glu Leu Gln Gln Trp Leu Lys Pro Gly Leu Lys Val Leu
      180             185             190

Ser Ile Ala Gln Ala His Ser Pro Ala Phe Ser Cys Glu Gln Val Arg
      195             200             205

Ala Phe Pro Ala Leu Thr Ser Leu Asp Leu Ser Asp Asn Pro Gly Leu
      210             215             220

Gly Glu Arg Gly Leu Met Ala Ala Leu Cys Pro His Lys Phe Pro Ala
 225             230             235             240

Ile Gln Asn Leu Ala Leu Arg Asn Thr Gly Met Glu Thr Pro Thr Gly
      245             250             255

Val Cys Ala Ala Leu Ala Xaa Xaa Gly Val Gln Pro His Ser Leu Asp
      260             265             270

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Leu Ser His Asn Ser Leu Arg Ala Thr Val Asn Pro Ser Ala Pro Arg
 275 280 285
 Cys Met Trp Ser Ser Ala Leu Asn Ser Leu Asn Leu Ser Phe Ala Gly
 290 295 300
 Leu Glu Gln Val Pro Lys Gly Leu Pro Ala Lys Leu Arg Val Leu Asp
 305 310 315 320
 Leu Ser Cys Asn Arg Leu Asn Arg Ala Pro Gln Pro Asp Glu Leu Pro
 325 330 335
 Glu Val Asp Asn Leu Thr Leu Asp Gly Asn Pro Phe Leu Val Pro Gly
 340 345 350
 Thr Ala Leu Pro His Glu Gly Ser Met Asn Ser Gly Val Val Pro Ala
 355 360 365
 Cys Ala Arg Ser Thr Leu Ser Val Gly Val Ser Gly Thr Leu Val Leu
 370 375 380
 Leu Gln Gly Ala Arg Ala Leu Pro Lys Ile Gln Asp Arg Ile Met Asn
 385 390 395 400
 Gly Leu Lys Leu Pro Trp Leu Gln Gly Ser Pro Val Arg Thr Leu Arg
 405 410 415
 Thr Phe Arg Pro Ile Gln Pro Phe Ala Pro Pro Leu Leu Lys Ser
 420 425 430

<210> 486

<211> 510

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 486

His Glu Glu Thr Gln Ser Phe Ser Ser Ala Lys Met Lys His Ser Leu
 1 5 10 15

Asn Ala Leu Leu Ile Phe Leu Ile Ile Thr Ser Ala Trp Gly Gly Ser
 20 25 30

Lys Gly Pro Leu Asp Gln Leu Glu Lys Gly Gly Glu Thr Ala Gln Ser

35	40	45
Ala Asp Pro Gln Trp Glu Gln Leu Asn Asn Lys Asn Leu Ser Met Pro		
50	55	60
Leu Leu Pro Ala Asp Phe His Lys Glu Asn Thr Val Thr Asn Asp Trp		
65	70	75 80
Ile Pro Glu Gly Glu Glu Asp Asp Asp Tyr Leu Asp Leu Glu Lys Ile		
	85	90 95
Phe Ser Glu Asp Asp Asp Tyr Ile Asp Ile Val Asp Ser Leu Ser Val		
	100	105 110
Ser Pro Thr Asp Ser Asp Val Ser Ala Gly Asn Ile Leu Gln Leu Phe		
	115	120 125
His Gly Lys Ser Arg Ile Gln Arg Leu Asn Ile Leu Asn Ala Lys Phe		
	130	135 140
Xaa Phe Asn Leu Tyr Arg Val Leu Lys Asp Gln Val Asn Thr Phe Asp		
145	150	155 160
Asn Ile Phe Ile Ala Pro Val Gly Ile Ser Thr Ala Met Gly Met Ile		
	165	170 175
Ser Leu Gly Leu Lys Gly Glu Thr His Glu Gln Val His Ser Ile Leu		
	180	185 190
His Phe Lys Asp Phe Val Asn Ala Ser Ser Lys Tyr Glu Ile Thr Thr		
	195	200 205
Ile His Asn Leu Phe Arg Lys Leu Thr His Arg Leu Phe Arg Arg Asn		
	210	215 220
Phe Gly Tyr Thr Leu Arg Ser Val Asn Asp Leu Tyr Ile Gln Lys Gln		
225	230	235 240
Phe Pro Ile Leu Leu Asp Phe Lys Thr Lys Val Arg Glu Tyr Tyr Phe		
	245	250 255
Ala Glu Ala Gln Ile Ala Asp Phe Ser Asp Pro Ala Phe Ile Ser Lys		
	260	265 270
Thr Asn Asn His Ile Met Lys Leu Thr Lys Gly Leu Ile Lys Asp Ala		
	275	280 285
Leu Glu Asn Ile Asp Pro Ala Thr Gln Met Met Ile Leu Asn Cys Ile		
	290	295 300
Tyr Phe Lys Gly Ser Trp Val Asn Lys Phe Pro Val Glu Met Thr His		

305		310		315		320
Asn His Asn Phe Arg Leu Asn Glu Arg Glu Val Val Lys Val Ser Met						
		325		330		335
Met Gln Thr Lys Gly Asn Phe Leu Ala Ala Asn Asp Gln Glu Leu Asp						
		340		345		350
Cys Asp Ile Leu Gln Leu Glu Tyr Val Gly Gly Ile Ser Met Leu Ile						
		355		360		365
Val Val Pro His Lys Met Ser Gly Met Lys Thr Leu Glu Ala Gln Leu						
		370		375		380
Thr Pro Arg Val Val Glu Arg Trp Gln Lys Ser Met Thr Asn Arg Thr						
		385		390		395
Arg Glu Val Leu Leu Pro Lys Phe Lys Leu Glu Lys Asn Tyr Asn Leu						
		405		410		415
Val Glu Ser Leu Lys Leu Met Gly Ile Arg Met Leu Phe Asp Lys Asn						
		420		425		430
Gly Asn Met Ala Gly Ile Ser Asp Gln Arg Ile Ala Ile Asp Leu Phe						
		435		440		445
Lys His Gln Gly Thr Ile Thr Val Asn Glu Glu Gly Thr Gln Ala Thr						
		450		455		460
Thr Val Thr Thr Val Gly Phe Met Pro Leu Ser Thr Gln Val Arg Phe						
		465		470		475
Thr Val Asp Arg Pro Phe Leu Phe Leu Ile Tyr Glu His Arg Thr Ser						
		485		490		495
Cys Leu Leu Phe Met Gly Arg Val Ala Asn Pro Ser Arg Ser						
		500		505		510

<210> 487

<211> 190

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 487

```

His Leu Arg Arg Gln Gln Asp Thr Leu Ser Thr Ala Leu Gln Trp Leu
 1              5              10              15
.
Leu Leu Leu Phe Thr Arg Tyr Pro Asp Val Gln Thr Arg Val Gln Ala
      20              25              30
Glu Leu Asp Gln Val Val Gly Arg Asp Arg Leu Pro Cys Met Gly Asp
      35              40              45
Gln Pro Asn Leu Pro Tyr Val Leu Ala Phe Leu Tyr Glu Ala Met Arg
      50              55              60
Phe Ser Ser Phe Val Pro Val Thr Ile Pro His Ala Thr Thr Ala Asn
 65              70              75              80
Thr Ser Val Leu Gly Tyr His Ile Pro Lys Asp Thr Val Val Phe Val
      85              90              95
Asn Gln Trp Ser Val Asn His Asp Pro Xaa Lys Trp Pro Asn Pro Glu
      100              105              110
Asn Phe Asp Pro Ala Arg Phe Leu Asp Lys Asp Gly Leu Ile Asn Lys
      115              120              125
Asp Leu Thr Ser Arg Val Met Ile Phe Ser Val Gly Lys Arg Arg Cys
      130              135              140
Ile Gly Glu Glu Leu Ser Lys Met Gln Leu Phe Leu Phe Ile Ser Ile
 145              150              155              160
Leu Ala His Gln Cys Asp Phe Arg Ala Asn Pro Asn Glu Pro Ala Lys
      165              170              175
Met Asn Phe Ser Tyr Gly Leu Thr Ile Lys Pro Lys Cys Ile
      180              185              190

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<210> 488

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

```

Lys Met Gln Ala Pro Ala Phe Arg Asp Lys Lys Gln Gly Val Ser Ala
 1              5              10              15

```

Lys Asn Gln Gly Ala His Asp Pro Asp Tyr Glu Asn Ile Thr Leu Ala
 20 25 30
 Phe Lys Asn Gln Asp His Ala Lys Gly Gly His Ser Arg Pro Thr Ser
 35 40 45
 Gln Val Pro Ala Gln Cys Arg Pro Pro Ser Asp Ser Thr Gln Val Pro
 50 55 60
 Cys Trp Leu Tyr Arg Ala Ile Leu Ser Leu Tyr Ile Leu Leu Ala Leu
 65 70 75 80
 Ala Phe Val Leu Cys Ile Ile Leu Ser Ala Phe Ile Met Val Lys Asn
 85 90 95
 Ala Glu Met Ser Lys Glu Leu Leu Gly Phe Lys Arg Glu Leu Trp Asn
 100 105 110
 Val Ser Asn Ser Val Gln Ala Cys Glu Glu Arg Gln Lys Arg Gly Trp
 115 120 125
 Xaa Ser Val Gln Gln Ser Ile Thr Met Val Arg Ser Lys Ile Asp Arg
 130 135 140
 Leu Glu Thr Thr Leu Ala Gly Ile Lys Asn Ile Asp Thr Lys Val
 145 150 155

<210> 489

<211> 284

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Gly Val Pro Gly Ala Glu
 1 5 10 15

Ser Glu Met Ser Ser Ser Gly Thr Pro Asp Leu Pro Val Leu Leu Thr
 20 25 30

Asp Leu Lys Ile Gln Tyr Thr Lys Ile Phe Ile Asn Asn Glu Trp His
 35 40 45

Asp Ser Val Ser Gly Lys Lys Phe Pro Val Phe Asn Pro Ala Thr Glu
 50 55 60

Glu Glu Leu Cys Gln Val Glu Glu Gly Asp Lys Glu Asp Val Asp Lys
 65 70 75 80

Ala Val Lys Ala Ala Arg Gln Ala Phe Gln Ile Gly Ser Pro Trp Arg
 85 90 95

Thr Met Asp Ala Ser Glu Arg Gly Arg Leu Leu Tyr Lys Leu Ala Asp
 100 105 110

Leu Ile Glu Arg Asp Arg Leu Leu Leu Ala Thr Met Glu Ser Met Asn
 115 120 125

Gly Gly Lys Leu Tyr Ser Asn Ala Tyr Leu Asn Asp Leu Ala Gly Cys
 130 135 140

Ile Lys Thr Leu Arg Tyr Cys Ala Gly Trp Ala Asp Lys Ile Gln Gly
 145 150 155 160

Arg Thr Ile Pro Ile Asp Gly Asn Phe Phe Thr Tyr Thr Arg His Glu
 165 170 175

Pro Ile Gly Val Cys Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu Val
 180 185 190

Met Leu Ile Trp Lys Ile Gly Pro Ala Leu Ser Cys Gly Asn Thr Val
 195 200 205

Gly Cys Gln Thr Ser Arg Ala Asn Ser Ser His Cys Ser Pro Arg Gly
 210 215 220

Ile Phe Asn Lys Arg Gly Arg Val Ser Ser Trp Ser Ser Glu Tyr Cys
 225 230 235 240

Ser Trp Leu Trp Ala Tyr Ser Arg Gly Ser His Phe Phe Ser His Gly
 245 250 255

Tyr Arg Gln Ser Ser Leu His Arg Xaa Asn Arg Gly Trp Gln Val Asp
 260 265 270

Gln Arg Ser Cys Arg Glu Lys Gln Ser Xaa Arg Gly
 275 280

<210> 490

<211> 329

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (328)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 490

Ala	Gly	Gly	Glu	His	Pro	Glu	Glu	Asp	Pro	Gly	Gly	Gly	Gly	Gln	Asp
1				5					10					15	

Pro	Arg	Gly	Pro	Asp	Pro	Gly	Asp	Glu	Ala	Glu	Ala	Leu	Thr	Gly	Arg
			20					25						30	

Gly	Gly	Ala	Gly	Gly	Gln	Leu	Glu	Gln	Thr	Lys	Arg	Val	Lys	Ala	Asn
		35					40						45		

Leu	Glu	Lys	Ala	Lys	Gln	Thr	Leu	Glu	Asn	Glu	Arg	Gly	Glu	Leu	Ala
	50					55					60				

Asn	Glu	Val	Lys	Val	Leu	Leu	Gln	Gly	Lys	Gly	Asp	Ser	Glu	His	Lys
65					70					75					80

Arg	Lys	Lys	Xaa	Glu	Ala	Gln	Leu	Gln	Glu	Leu	Gln	Val	Lys	Phe	Asn
				85					90					95	

Glu	Gly	Glu	Arg	Val	Arg	Thr	Glu	Leu	Ala	Asp	Lys	Val	Thr	Lys	Leu
			100					105					110		

Gln	Val	Glu	Leu	Asp	Asn	Val	Thr	Gly	Leu	Leu	Ser	Gln	Ser	Asp	Ser
	115						120					125			

Lys	Ser	Ser	Lys	Leu	Thr	Lys	Asp	Phe	Ser	Ala	Leu	Glu	Ser	Gln	Leu
	130					135					140				

Gln	Asp	Thr	Gln	Glu	Leu	Leu	Gln	Glu	Glu	Asn	Arg	Gln	Lys	Leu	Ser
145					150					155					160

Leu	Ser	Thr	Lys	Leu	Lys	Gln	Val	Glu	Asp	Glu	Lys	Asn	Ser	Phe	Arg
			165						170					175	

Glu	Gln	Leu	Glu	Glu	Glu	Glu	Glu	Ala	Lys	His	Asn	Leu	Glu	Lys	Gln
		180						185					190		

Ile Ala Thr Leu His Ala Gln Val Ala Asp Met Lys Lys Lys Met Glu
 195 200 205
 Asp Ser Val Gly Cys Leu Glu Thr Ala Glu Glu Val Lys Arg Lys Leu
 210 215 220
 Gln Lys Asp Leu Glu Gly Leu Ser Gln Arg His Glu Glu Lys Val Ala
 225 230 235 240
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Thr Arg Leu Gln Gln Glu Leu
 245 250 255
 Asp Asp Leu Leu Val Asp Leu Asp His Gln Arg Gln Ser Ala Cys Asn
 260 265 270
 Leu Glu Lys Lys Gln Lys Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys
 275 280 285
 Thr Ile Ser Ala Lys Tyr Ala Glu Glu Arg Asp Arg Ala Glu Ala Glu
 290 295 300
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu
 305 310 315 320
 Glu Ala Met Glu Gln Lys Ala Xaa Trp
 325

<210> 491
 <211> 309
 <212> PRT
 <213> Homo sapiens

<400> 491
 Gly Arg Ala Ala Ala Pro Gly Leu Ala Thr Arg Thr Gly Glu Cys Asp
 1 5 10 15
 Cys Val Ser Gly Ser Met Ala Glu Lys Arg His Thr Arg Asp Ser Glu
 20 25 30
 Ala Gln Arg Leu Pro Asp Ser Phe Lys Asp Ser Pro Ser Lys Gly Leu
 35 40 45
 Gly Pro Cys Gly Trp Ile Leu Val Ala Phe Ser Phe Leu Phe Thr Val
 50 55 60
 Ile Thr Phe Pro Ile Ser Ile Trp Met Cys Ile Lys Ile Ile Lys Glu
 65 70 75 80

Tyr Glu Arg Ala Ile Ile Phe Arg Leu Gly Arg Ile Leu Gln Gly Gly
 85 90 95
 Ala Lys Gly Pro Gly Leu Phe Phe Ile Leu Pro Cys Thr Asp Ser Phe
 100 105 110
 Ile Lys Val Asp Met Arg Thr Ile Ser Phe Asp Ile Pro Pro Gln Glu
 115 120 125
 Ile Leu Thr Lys Asp Ser Val Thr Ile Ser Val Asp Gly Val Val Tyr
 130 135 140
 Tyr Arg Val Gln Asn Ala Thr Leu Ala Val Ala Asn Ile Thr Asn Ala
 145 150 155 160
 Asp Ser Ala Thr Arg Leu Leu Ala Gln Thr Thr Leu Arg Asn Val Leu
 165 170 175
 Gly Thr Lys Asn Leu Ser Gln Ile Leu Ser Asp Arg Glu Glu Ile Ala
 180 185 190
 His Asn Met Gln Ser Thr Leu Asp Asp Ala Thr Asp Ala Trp Gly Ile
 195 200 205
 Lys Val Glu Arg Val Glu Ile Lys Asp Val Lys Leu Pro Val Gln Leu
 210 215 220
 Gln Arg Ala Met Ala Ala Glu Ala Glu Ala Ser Arg Glu Ala Arg Ala
 225 230 235 240
 Lys Val Ile Ala Ala Glu Gly Glu Met Asn Ala Ser Arg Ala Leu Lys
 245 250 255
 Glu Ala Ser Met Val Ile Thr Glu Ser Pro Ala Ala Leu Gln Leu Arg
 260 265 270
 Tyr Leu Gln Thr Leu Thr Thr Ile Ala Ala Glu Lys Asn Ser Thr Ile
 275 280 285
 Val Phe Pro Leu Pro Ile Asp Met Leu Gln Gly Ile Ile Gly Ala Lys
 290 295 300
 His Ser His Leu Gly
 305

<210> 492

<211> 135

<212> PRT

<213> Homo sapiens

<400> 492

Glu Thr Leu Pro Ser Asn Thr Met Ala Ser Asn Val Thr Asn Lys Thr
 1 5 10 15
 Asp Pro Arg Ser Met Asn Ser Arg Val Phe Ile Gly Asn Leu Asn Thr
 20 25 30
 Leu Val Val Lys Lys Ser Asp Val Glu Ala Ile Phe Ser Lys Tyr Gly
 35 40 45
 Lys Ile Val Gly Cys Ser Val His Lys Gly Phe Ala Phe Val Gln Tyr
 50 55 60
 Val Asn Glu Arg Asn Ala Arg Ala Ala Val Ala Gly Glu Asp Gly Arg
 65 70 75 80
 Met Ile Ala Gly Gln Val Leu Asp Ile Asn Leu Ala Ala Glu Pro Lys
 85 90 95
 Val Asn Arg Gly Lys Ala Gly Val Lys Arg Ser Ala Ala Glu Met Tyr
 100 105 110
 Gly Ser Ser Phe Asp Leu Asp Tyr Asp Phe Gln Arg Asp Tyr Tyr Asp
 115 120 125
 Arg Met Tyr Ser Tyr Pro Ala
 130 135

<210> 493

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 493

Gly Gly Ser Ala Met Arg Leu Ala Val Leu Phe Ser Gly Ala Leu Leu
 1 5 10 15
 Gly Leu Leu Ala Ala Gln Gly Thr Gly Asn Asp Cys Pro His Lys Lys
 20 25 30
 Ser Ala Thr Leu Leu Pro Ser Phe Thr Val Xaa Pro Thr Val Thr Glu
 35 40 45

Ser Thr Gly Thr Thr Ser His Arg Thr Thr Lys Ser His Lys Thr Thr
 50 55 60
 Thr His Arg Thr Thr Thr Thr Gly Thr Thr Ser His Gly Pro Thr Thr
 65 70 75 80
 Ala Thr His Asn Pro Thr Thr Thr Ser His Gly Asn Val Thr Val His
 85 90 95
 Pro Thr Ser Asn Ser Thr Ala Thr Ser Gln Gly Pro Ser Thr Ala Thr
 100 105 110
 His Ser Pro Ala Thr Thr Ser His Gly Asn Ala Thr Val His Pro Thr
 115 120 125
 Ser Asn Ser Thr Ala Thr Ser Pro Gly Phe Thr Ser Ser Ala His Pro
 130 135 140
 Glu Pro Pro Pro Pro Ser Pro Ser Pro Ser Pro Thr Ser Lys Glu Thr
 145 150 155 160
 Ile Gly Asp Tyr Thr Trp Thr Asn Gly Ser Gln Pro Cys Val His Leu
 165 170 175
 Gln Ala Gln Ile Gln Ile Arg Val Met Tyr Thr Thr Gln Gly Gly Gly
 180 185 190
 Glu Ala Trp Gly Ile Ser Val Leu Asn Pro Asn Lys Thr Lys Val Gln
 195 200 205
 Gly Ser Cys Glu Gly Ala His Pro His Leu Leu Leu Ser Phe Pro Tyr
 210 215 220
 Gly His Leu Ser Phe Gly Phe Met Gln Asp Leu Gln Gln Lys Val Val
 225 230 235 240
 Tyr Leu Ser Tyr Met Ala Val Glu Tyr Asn Val Ser Phe Pro His Ala
 245 250 255
 Ala Gln Trp Thr Phe Ser Ala Gln Asn Ala Ser Leu Arg Asp Leu Gln
 260 265 270
 Ala Pro Leu Gly Gln Ser Phe Ser Cys Ser Asn Ser Ser Ile Ile Leu
 275 280 285
 Ser Pro Ala Val His Leu Asp Leu Leu Ser Leu Arg Leu Gln Ala Ala
 290 295 300
 Gln Leu Pro His Thr Gly Val Phe Gly Gln Ser Phe Ser Cys Pro Ser
 305 310 315 320

Asp Arg Ser Ile Leu Leu Pro Leu Ile Ile Gly Leu Ile Leu Leu Gly
325 330 335

Leu Leu Ala Leu Val Leu Ile Ala Phe Cys Ile Ile Arg Arg Arg Pro
340 345 350

Ser Ala Tyr Gln Ala Leu
355

<210> 494

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (290)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle \quad (412)$

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 494

Gly Arg Pro Ser Ser Gly Leu Arg Ser Pro Gly Pro Gly Xaa Xaa Ser
1 5 10 15

Phe Lys Lys Thr Ser Ser Phe Cys Ala Asp Val Leu Ala Gln Asp Leu
20 25 30

His Lys Pro Ala Phe Glu Ala Asp Ile Ser Glu Leu Ile Leu Cys Gln
35 40 45

Asn	Glu	Val	Asp	Tyr	Ala	Leu	Lys	Asn	Leu	Gln	Ala	Trp	Met	Lys	Asp	50	55	60	
Glu	Pro	Arg	Ser	Thr	Asn	Leu	Phe	Met	Lys	Leu	Asp	Ser	Val	Phe	Ile	65	70	75	80
Trp	Lys	Glu	Pro	Phe	Gly	Leu	Val	Leu	Ile	Ile	Ala	Pro	Trp	Asn	Tyr	85	90	95	
Pro	Leu	Asn	Leu	Thr	Leu	Val	Leu	Leu	Val	Gly	Ala	Leu	Ala	Ala	Gly	100	105	110	
Asn	Cys	Val	Val	Leu	Lys	Pro	Ser	Glu	Ile	Ser	Gln	Gly	Thr	Glu	Lys	115	120	125	
Val	Leu	Ala	Glu	Val	Leu	Pro	Gln	Tyr	Leu	Asp	Gln	Ser	Cys	Phe	Ala	130	135	140	
Val	Val	Leu	Gly	Gly	Pro	Gln	Glu	Thr	Gly	Gln	Leu	Leu	Glu	His	Lys	145	150	155	160
Leu	Asp	Tyr	Ile	Phe	Phe	Thr	Gly	Ser	Pro	Arg	Val	Gly	Lys	Ile	Val	165	170	175	
Met	Thr	Ala	Ala	Thr	Lys	His	Leu	Thr	Pro	Val	Thr	Leu	Glu	Leu	Gly	180	185	190	
Gly	Lys	Asn	Pro	Cys	Tyr	Val	Asp	Asp	Asn	Cys	Asp	Pro	Gln	Thr	Val	195	200	205	
Ala	Asn	Arg	Val	Ala	Trp	Phe	Cys	Tyr	Phe	Asn	Ala	Gly	Gln	Thr	Cys	210	215	220	
Val	Ala	Pro	Asp	Tyr	Val	Leu	Cys	Ser	Pro	Glu	Met	Gln	Glu	Arg	Leu	225	230	235	240
Leu	Pro	Ala	Leu	Gln	Ser	Thr	Ile	Thr	Arg	Phe	Tyr	Gly	Asp	Asp	Pro	245	250	255	
Gln	Ser	Ser	Pro	Asn	Leu	Gly	Arg	Ile	Ile	Asn	Gln	Lys	Gln	Phe	Gln	260	265	270	
Arg	Leu	Arg	Ala	Leu	Leu	Gly	Cys	Gly	Arg	Val	Ala	Ile	Gly	Gly	Gln	275	280	285	
Ser	Xaa	Glu	Ser	Asp	Arg	Tyr	Ile	Ala	Pro	Thr	Val	Leu	Val	Asp	Val	290	295	300	
Gln	Glu	Xaa	Glu	Pro	Val	Met	Gln	Glu	Glu	Ile	Phe	Gly	Pro	Ile	Leu	305	310	315	320

Pro Ile Val Asn Val Gln Ser Leu Asp Glu Ala Ile Glu Phe Ile Asn
325 330 335

Arg Arg Glu Lys Pro Leu Ala Leu Tyr Ala Phe Ser Asn Ser Ser Gln
340 345 350

Val Val Lys Arg Val Leu Thr Gln Thr Ser Ser Gly Gly Phe Cys Gly
355 360 365

Asn Asp Gly Phe Met His Met Thr Leu Ala Ser Leu Pro Phe Gly Gly
370 375 380

Val	Gly	Ala	Ser	Gly	Met	Gly	Arg	Tyr	His	Gly	Lys	Phe	Ser	Phe	Asp
385					390					395					400

Thr Phe Ser His His Arg Ala Cys Leu Leu Arg Xaa Arg Gly Trp Arg
405 410 415

Ser Ser Thr Pro Ser Ala Thr Arg Arg Asn Arg Arg Ala Ala
420 425 430

<210> 495

<211> 439

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (416)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Asp Ser Arg Thr Arg Tyr Ala Xaa Glu Arg Asp Lys Ala Gln Phe Leu
1 5 10 15

Ser Lys Glu Leu Glu His Val Lys Met Glu Leu Ala Lys Tyr Lys Leu
20 25 30

Ala Glu Lys Thr Glu Thr Ser His Glu Gln Trp Leu Phe Lys Arg Leu
35 40 45

Gln Glu Glu Glu Ala Lys Ser Gly His Leu Ser Arg Glu Val Asp Ala
50 55 60

Leu	Lys	Glu	Lys	Ile	His	Glu	Tyr	Met	Ala	Thr	Glu	Asp	Leu	Ile	Cys	65	70	75	80
His	Leu	Gln	Gly	Asp	His	Ser	Val	Leu	Gln	Lys	Lys	Leu	Asn	Gln	Gln	85	90	95	
Glu	Asn	Arg	Asn	Arg	Asp	Leu	Gly	Arg	Glu	Ile	Glu	Asn	Leu	Thr	Lys	100	105	110	
Glu	Leu	Glu	Arg	Tyr	Arg	His	Phe	Ser	Lys	Ser	Leu	Arg	Pro	Ser	Leu	115	120	125	
Asn	Gly	Arg	Arg	Ile	Ser	Asp	Pro	Gln	Val	Phe	Ser	Lys	Glu	Val	Gln	130	135	140	
Thr	Glu	Ala	Val	Asp	Asn	Glu	Pro	Pro	Asp	Tyr	Lys	Ser	Leu	Ile	Pro	145	150	155	160
Leu	Glu	Arg	Ala	Val	Ile	Asn	Gly	Gln	Leu	Tyr	Glu	Glu	Ser	Glu	Asn	165	170	175	
Gln	Asp	Glu	Asp	Pro	Asn	Asp	Glu	Gly	Ser	Val	Leu	Ser	Phe	Lys	Cys	180	185	190	
Ser	Gln	Ser	Thr	Pro	Cys	Pro	Val	Asn	Arg	Lys	Leu	Trp	Ile	Pro	Trp	195	200	205	
Met	Lys	Ser	Lys	Glu	Gly	His	Leu	Gln	Asn	Gly	Lys	Met	Gln	Thr	Lys	210	215	220	
Pro	Asn	Ala	Asn	Phe	Val	Gln	Pro	Gly	Asp	Leu	Val	Leu	Ser	His	Thr	225	230	235	240
Pro	Gly	Gln	Pro	Leu	His	Ile	Lys	Val	Thr	Pro	Asp	His	Val	Gln	Asn	245	250	255	
Thr	Ala	Thr	Leu	Glu	Ile	Thr	Ser	Pro	Thr	Thr	Glu	Ser	Pro	His	Ser	260	265	270	
Tyr	Thr	Ser	Thr	Ala	Val	Ile	Pro	Asn	Cys	Gly	Thr	Pro	Lys	Gln	Arg	275	280	285	
Ile	Thr	Ile	Leu	Gln	Asn	Ala	Ser	Ile	Thr	Pro	Val	Lys	Ser	Lys	Thr	290	295	300	
Ser	Thr	Glu	Asp	Leu	Met	Asn	Leu	Glu	Gln	Gly	Met	Ser	Pro	Ile	Thr	305	310	315	320
Met	Ala	Thr	Phe	Ala	Arg	Ala	Gln	Thr	Pro	Glu	Ser	Cys	Gly	Ser	Leu	325	330	335	

Thr Pro Glu Arg Thr Met Ser Pro Ile Gln Val Leu Ala Val Thr Gly
 340 345 350
 Ser Ala Ser Ser Pro Glu Gln Gly Arg Ser Pro Glu Pro Thr Glu Ile
 355 360 365
 Ser Ala Lys His Ala Ile Phe Arg Val Ser Pro Asp Arg Gln Ser Ser
 370 375 380
 Trp Gln Phe Gln Arg Ser Asn Ser Asn Ser Ser Ser Val Ile Thr Thr
 385 390 395 400
 Glu Asp Asn Lys Ile His Ile His Leu Gly Ser Pro Tyr Met Gln Xaa
 405 410 415
 Val Ala Ser Pro Val Arg Pro Ala Ser Pro Ser Ala Pro Leu Gln Asp
 420 425 430
 Asn Arg Thr Gln Gly Leu Ile
 435

<210> 496
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 496
 Glu Ser Thr Gly Thr Ala Ser Arg Ala Ala Thr Met Pro Asn Phe Ser
 1 5 10 15
 Gly Asn Trp Lys Ile Ile Arg Ser Glu Asn Phe Glu Glu Leu Leu Lys
 20 25 30
 Val Leu Gly Val Asn Val Met Leu Arg Lys Ile Ala Val Ala Ala Ala
 35 40 45
 Ser Lys Pro Ala Val Glu Ile Lys Gln Glu Gly Asp Thr Phe Tyr Ile
 50 55 60
 Lys Thr Ser Thr Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly
 65 70 75 80
 Glu Glu Phe Glu Glu Gln Thr Val Asp Gly Arg Pro Cys Lys Ser Leu
 85 90 95
 Val Lys Trp Glu Ser Glu Asn Lys Met Val Cys Glu Gln Lys Leu Leu
 100 105 110
 Lys Gly Glu Gly Pro Lys Thr Ser Trp Thr Arg Glu Leu Thr Asn Asp

115 120 125
 Gly Glu Leu Ile Leu Thr Met Thr Ala Asp Asp Val Val Cys Thr Arg
 130 135 140
 Val Tyr Val Arg Glu
 145

<210> 497

<211> 395

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 497

Ala Glu Lys Lys Ser Thr Lys Thr His Ser Leu Leu Val Gly Arg Glu
 1 5 10 15
 Asp Arg Asn Asp Met Ser Thr Ala Gly Lys Val Ile Lys Cys Lys Ala
 20 25 30
 Ala Val Leu Trp Glu Val Lys Lys Pro Phe Ser Ile Glu Asp Val Glu
 35 40 45
 Val Ala Pro Pro Lys Ala Tyr Glu Val Arg Ile Lys Met Val Ala Val
 50 55 60
 Gly Ile Cys Arg Thr Asp Asp His Val Val Ser Gly Asn Leu Val Thr
 65 70 75 80
 Pro Leu Pro Val Ile Leu Gly His Glu Ala Ala Gly Ile Val Glu Ser
 85 90 95
 Val Gly Glu Gly Val Thr Thr Val Lys Pro Gly Asp Lys Val Ile Pro
 100 105 110
 Leu Phe Thr Pro Gln Cys Gly Lys Cys Arg Val Cys Lys Asn Pro Glu
 115 120 125
 Ser Asn Tyr Cys Leu Lys Asn Asp Leu Gly Asn Pro Arg Gly Thr Leu
 130 135 140
 Gln Asp Gly Thr Arg Arg Phe Thr Cys Arg Gly Lys Pro Ile His His
 145 150 155 160

Phe Leu Gly Xaa Ser Thr Phe Ser Gln Tyr Thr Val Val Asp Glu Asn
 165 170 175
 Ala Val Ala Lys Ile Asp Ala Ala Ser Pro Leu Glu Lys Val Cys Leu
 180 185 190
 Ile Gly Cys Gly Phe Ser Thr Gly Tyr Gly Ser Ala Val Asn Val Ala
 195 200 205
 Lys Val Thr Pro Gly Ser Thr Cys Ala Val Phe Gly Leu Gly Gly Val
 210 215 220
 Gly Leu Ser Ala Val Met Gly Cys Lys Ala Ala Gly Ala Ala Arg Ile
 225 230 235 240
 Ile Ala Val Asp Ile Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu
 245 250 255
 Gly Ala Thr Glu Cys Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln
 260 265 270
 Glu Val Leu Lys Glu Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu
 275 280 285
 Val Ile Gly Arg Leu Asp Thr Met Met Ala Ser Leu Leu Cys Cys His
 290 295 300
 Glu Ala Cys Gly Thr Ser Val Ile Val Gly Val Pro Pro Ala Ser Gln
 305 310 315 320
 Asn Leu Ser Ile Asn Pro Met Leu Leu Leu Thr Gly Arg Thr Trp Lys
 325 330 335
 Gly Ala Val Tyr Gly Gly Phe Lys Ser Lys Glu Gly Ile Pro Lys Leu
 340 345 350
 Val Ala Asp Phe Met Ala Lys Lys Phe Ser Leu Asp Ala Leu Ile Thr
 355 360 365
 His Val Leu Pro Phe Glu Lys Ile Asn Glu Gly Phe Asp Leu Leu His
 370 375 380
 Ser Gly Lys Ser Ile Arg Thr Val Leu Thr Phe
 385 390 395

<210> 498

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Arg	Thr	Leu	Gly	Xaa	Pro	Ser	Ala	Ser	Val	Leu	Pro	His	Ser	Arg	Ala
1				5					10					15	

Leu	Leu	Thr	Pro	Xaa	Arg	Ala	Pro	Lys	Lys	Lys	Met	Ala	Ile	Ser	Gly
			20					25					30		

Val	Pro	Val	Leu	Gly	Phe	Phe	Ile	Ile	Ala	Val	Leu	Met	Ser	Ala	Gln
		35					40					45			

Glu	Ser	Trp	Ala	Ile	Lys	Glu	Glu	His	Val	Ile	Ile	Gln	Ala	Glu	Phe
	50				55						60				

Tyr	Leu	Asn	Pro	Asp	Gln	Ser	Gly	Glu	Phe	Met	Phe	Asp	Phe	Asp	Gly
65					70					75					80

Asp	Glu	Ile	Phe	His	Val	Asp	Met	Ala	Lys	Lys	Glu	Thr	Val	Trp	Arg
				85					90					95	

Leu	Glu	Glu	Phe	Gly	Arg	Phe	Ala	Ser	Phe	Glu	Ala	Gln	Gly	Ala	Leu
			100					105					110		

Ala	Asn	Ile	Ala	Val	Asp	Lys	Ala	Asn	Leu	Glu	Ile	Met	Thr	Lys	Arg
		115					120					125			

Ser	Asn	Tyr	Thr	Pro	Ile	Thr	Asn	Val	Pro	Pro	Glu	Val	Thr	Val	Leu
	130					135					140				

Thr	Asn	Ser	Pro	Val	Glu	Leu	Arg	Glu	Pro	Asn	Val	Leu	Ile	Cys	Phe
145					150					155					160

Ile	Asp	Lys	Phe	Thr	Pro	Pro	Val	Val	Asn	Val	Thr	Trp	Leu	Arg	Asn
				165					170					175	

Gly	Lys	Pro	Val	Thr	Thr	Gly	Val	Ser	Glu	Thr	Val	Phe	Leu	Pro	Arg
			180					185					190		

Glu	Asp	His	Leu	Phe	Arg	Lys	Phe	His	Tyr	Leu	Pro	Phe	Leu	Pro	Ser
		195					200						205		

Thr Glu Asp Val Tyr Asp Cys Arg Val Glu His Trp Gly Leu Asp Glu
 210 215 220
 Pro Leu Leu Lys His Trp Glu Phe Asp Ala Pro Ser Pro Leu Pro Glu
 225 230 235 240
 Thr Thr Glu Asn Val Val Cys Ala Leu Gly Leu Thr Val Gly Leu Val
 245 250 255
 Gly Ile Ile Ile Gly Thr Ile Phe Ile Ile Lys Gly Val Arg Lys Ser
 260 265 270
 Asn Ala Ala Glu Arg Arg Gly Pro Leu
 275 280

<210> 499
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 499

Pro Glu Gln Gly Gly Glu Arg Leu Ser Cys Pro Pro Glu Leu Leu Pro
 1 5 10 15
 Gly Asp Asn Pro Ser Gln Pro Ile Ala Gln Pro Arg Ser Pro Tyr Ile
 20 25 30
 Arg Pro Arg Leu Leu Ala Leu Pro Leu Gly Gln Cys His Leu Gln Asp
 35 40 45
 Thr Asp Ser Pro Pro Ser Ala Gln Pro Ser Gln Val Ser Tyr Thr Ala
 50 55 60
 Thr Met Pro Phe Gly Asn Thr His Asn Lys Phe Lys Leu Asn Tyr Lys
 65 70 75 80
 Pro Glu Glu Glu Tyr Pro Asp Leu Ser Lys His Asn Asn His Met Ala
 85 90 95
 Lys Val Leu Thr Leu Glu Leu Tyr Lys Lys Leu Arg Asp Lys Glu Thr
 100 105 110
 Pro Ser Gly Phe Thr Val Asp Asp Val Ile Gln Thr Gly Val Asp Asn
 115 120 125
 Pro Gly His Pro Phe Ile Met Thr Val Gly Cys Val Ala Gly Asp Glu
 130 135 140
 Glu Ser Tyr Glu Val Phe Lys Glu Leu Phe Asp Pro Ile Ile Ser Asp

145		150		155		160
Arg His Gly Gly Tyr Lys Pro Thr Asp Lys His Lys Thr Asp Leu Asn						
		165		170		175
His Glu Asn Leu Lys Gly Gly Asp Asp Leu Asp Pro Asn Tyr Val Leu						
		180		185		190
Ser Ser Arg Val Arg Thr Gly Arg Ser Ile Lys Gly Tyr Thr Leu Pro						
		195		200		205
Pro His Cys Ser Arg Gly Glu Arg Arg Ala Val Glu Lys Leu Ser Val						
		210		215		220
Glu Ala Leu Asn Ser Leu Thr Gly Glu Phe Lys Gly Lys Tyr Tyr Pro						
225		230		235		240
Leu Lys Ser Met Thr Glu Lys Glu Gln Gln Gln Leu Ile Asp Asp His						
		245		250		255
Phe Leu Phe Asp Lys Pro Val Ser Pro Leu Leu Leu Ala Ser Gly Met						
		260		265		270
Ala Arg Asp Trp Pro Asp Ala Arg Gly Ile Trp His Asn Asp Asn Lys						
		275		280		285
Ser Phe Leu Val Trp Val Asn Glu Glu Asp His Leu Arg Val Ile Ser						
		290		295		300
Met Glu Lys Gly Gly Asn Met Lys Glu Val Phe Arg Arg Phe Cys Val						
305		310		315		320
Gly Leu Gln Lys Ile Glu Glu Ile Phe Lys Lys Ala Gly His Pro Phe						
		325		330		335
Met Trp Asn Gln His Leu Gly Tyr Val Leu Thr Cys Pro Ser Asn Leu						
		340		345		350
Gly Thr Gly Leu Arg Gly Gly Val His Val Lys Leu Ala His Leu Ser						
		355		360		365
Lys His Pro Lys Phe Glu Glu Ile Leu Thr Arg Leu Arg Leu Gln Lys						
		370		375		380
Arg Gly Thr Gly Gly Val Asp Thr Ala Ala Val Gly Ser Val Phe Asp						
385		390		395		400
Val Ser Asn Ala Asp Arg Leu Gly Ser Ser Glu Val Glu Gln Val Gln						
		405		410		415
Leu Val Val Asp Gly Val Lys Leu Met Val Glu Met Glu Lys Lys Leu						

501

420 425 430
 Glu Lys Gly Gln Ser Ile Asp Asp Met Ile Pro Ala Gln Lys
 435 440 445

<210> 500
 <211> 198
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (196)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 500
 Leu Cys Pro Arg His Ala Xaa Xaa Ala His Leu His Val Glu Ile Phe
 1 5 10 15
 Gly Thr Gln Gly Lys Pro Ala Ile Ala His Arg Asp Phe Lys Ser Arg
 20 25 30
 Asn Val Leu Val Lys Ser Asn Leu Gln Cys Cys Ile Ala Asp Leu Gly
 35 40 45
 Leu Ala Val Met His Ser Gln Gly Ser Asp Tyr Leu Asp Ile Gly Asn
 50 55 60
 Asn Pro Arg Val Gly Thr Lys Arg Tyr Met Ala Pro Glu Val Leu Asp

502

65		70		75		80									
Glu	Gln	Ile	Arg	Thr	Asp	Cys	Phe	Glu	Ser	Tyr	Lys	Trp	Thr	Asp	Ile
				85					90					95	
Trp	Ala	Phe	Gly	Leu	Val	Leu	Trp	Glu	Ile	Ala	Arg	Arg	Thr	Ile	Val
			100					105					110		
Asn	Gly	Ile	Val	Glu	Asp	Tyr	Arg	Pro	Pro	Phe	Tyr	Xaa	Val	Val	Pro
		115					120					125			
Asn	Asp	Pro	Ser	Phe	Glu	Asp	Met	Lys	Lys	Val	Val	Cys	Val	Asp	Gln
	130						135				140				
Gln	Thr	Pro	Thr	Ile	Pro	Asn	Arg	Leu	Ala	Ala	Asp	Pro	Val	Leu	Ser
145					150					155					160
Gly	Leu	Ala	Gln	Met	Met	Arg	Glu	Cys	Trp	Tyr	Pro	Asn	Pro	Ser	Ala
			165						170					175	
Arg	Leu	Xaa	Ala	Leu	Gly	Ser	Arg	Arg	His	Tyr	Lys	Lys	Leu	Ala	Thr
		180						185					190		
Val	Gln	Arg	Xaa	Leu	Lys										
		195													

<210> 501

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 501

His	Glu	Gly	Gly	Gly	His	Gly	His	Ala	Gly	His	His	His	His	His	His
1					5				10					15	

His	His	His	His	His	Pro	Pro	Met	Ile	Ala	Leu	Gln	Pro	Leu	Val	Thr	20	25	30	
Asp	Asp	Pro	Thr	Gln	Val	His	His	His	Gln	Glu	Val	Ile	Leu	Val	Gln	35	40	45	
Thr	Arg	Glu	Glu	Val	Val	Gly	Gly	Asp	Asp	Ser	Asp	Gly	Leu	Arg	Ala	50	55	60	
Glu	Asp	Gly	Phe	Glu	Asp	Gln	Ile	Leu	Ile	Pro	Val	Pro	Ala	Pro	Ala	65	70	75	80
Gly	Gly	Asp	Asp	Asp	Tyr	Ile	Glu	Gln	Thr	Leu	Val	Thr	Val	Ala	Ala	85	90	95	
Ala	Gly	Lys	Ser	Gly	Gly	Gly	Gly	Ser	Phe	Val	Val	Gly	Arg	Arg	Pro	100	105	110	
Arg	Gln	Glu	Gly	Arg	Arg	Xaa	Glu	Glu	Arg	Gln	Glu	Glu	Leu	Pro	Gln	115	120	125	
Arg	Arg	Gly	Ala	Arg	Arg	Ala	Ala	Xaa	Arg	Thr	Arg	Xaa	Asn	Lys	Lys	130	135	140	
Trp	Glu	Gln	Lys	Gln	Val	Gln	Ile	Lys	Thr	Leu	Glu	Gly	Glu	Phe	Ser	145	150	155	160
Val	Thr	Met	Trp	Ser	Ser	Asp	Glu	Lys	Lys	Asp	Ile	Asp	His	Glu	Thr	165	170	175	
Val	Val	Glu	Glu	Gln	Ile	Ile	Gly	Glu	Asn	Ser	Pro	Pro	Asp	Tyr	Ser	180	185	190	
Glu	Tyr	Met	Thr	Gly	Lys	Lys	Leu	Pro	Pro	Gly	Gly	Ile	Pro	Gly	Ile	195	200	205	
Asp	Leu	Ser	Asp	Pro	Lys	Gln	Leu	Ala	Glu	Phe	Ala	Arg	Met	Lys	Pro	210	215	220	
Arg	Lys	Ile	Lys	Glu	Asp	Asp	Ala	Pro	Arg	Thr	Ile	Ala	Cys	Pro	His	225	230	235	240
Lys	Gly	Cys	Thr	Lys	Met	Phe	Arg	Asp	Asn	Ser	Ala	Met	Arg	Lys	His	245	250	255	
Leu	His	Thr	His	Gly	Pro	Arg	Val	His	Val	Cys	Ala	Glu	Cys	Gly	Lys	260	265	270	
Ala	Phe	Val	Glu	Ser	Ser	Lys	Leu	Lys	Arg	His	Gln	Leu	Val	His	Thr	275	280	285	

504

Gly Glu Lys Pro Phe Gln Cys Thr Phe Glu Gly Cys Gly Lys Arg Phe
290 295 300

Ser Leu Asp Phe Asn Leu Arg Thr His Val Arg Ile His Thr Gly Asp
305 310 315 320

Arg Pro Tyr Val Cys Pro Phe Asp Gly Cys Asn Lys Lys Phe Ala Gln
325 330 335

Ser Thr Asn Leu Lys Ser His Ile Leu Thr His Ala Lys Ala Lys Asn
340 345 350

Asn Gln

<210> 502

<211> 81

<212> PRT

<213> Homo sapiens

<400> 502

Leu Pro Trp Leu Leu Phe Glu Thr Val Met Thr Phe Leu Leu Ile Ser
1 5 10 15

Leu Leu Val Ser Phe Ser Gly Arg Ala Gly Cys Leu Glu Phe Ser Val
20 25 30

Lys Glu Thr Gln Asp Ser Pro Leu Phe Leu Cys Leu Trp Glu Ser Pro
35 40 45

Trp His Thr Pro Lys Arg Gly Pro Cys Ser Val Ser Gln Gly Ser Phe
50 55 60

Cys Ile Phe Gly Leu Ala Ser Tyr Ile Cys His Val Val Ser Ser Ser
65 70 75 80

Ala

<210> 503

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

505

<222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 503
 Thr Pro Ala Pro Xaa Ser Pro Ala Ala Ala Arg Glu Ser Thr Arg Arg
 1 5 10 15

 Val Ala Ile Asn Val Arg Ala Ser Ile Ala Leu Ser Xaa Ser Leu Arg
 20 25 30

 Thr Leu Val Leu Pro Arg Leu Thr Xaa Thr Ser Pro Gly Pro Arg Gly
 35 40 45

 Xaa Gly Xaa Phe Gly Cys Pro Xaa Ser Phe Lys
 50 55

 <210> 504
 <211> 251
 <212> PRT
 <213> Homo sapiens

 <400> 504
 Ser Leu Phe Thr Met Ser Leu Gln Arg Leu Leu Gln His Ser Ser Asn
 1 5 10 15

506

Gly Asn Leu Ala Asp Phe Cys Ala Gly Pro Ala Tyr Ser Ser Tyr Ser
 20 25 30
 Thr Leu Thr Gly Ser Leu Thr Met Asp Asp Asn Arg Arg Ile Gln Met
 35 40 45
 Leu Ala Asp Thr Val Ala Thr Leu Pro Arg Gly Arg Lys Gln Leu Ala
 50 55 60
 Leu Thr Arg Ser Ser Ser Leu Ser Asp Phe Ser Trp Ser Gln Arg Lys
 65 70 75 80
 Leu Val Thr Val Glu Lys Gln Asp Asn Glu Thr Phe Gly Phe Glu Ile
 85 90 95
 Gln Ser Tyr Arg Pro Gln Asn Gln Asn Ala Cys Ser Ser Glu Met Phe
 100 105 110
 Thr Leu Ile Cys Lys Ile Gln Glu Asp Ser Pro Ala His Cys Ala Gly
 115 120 125
 Leu Gln Ala Gly Asp Val Leu Ala Asn Ile Asn Gly Val Ser Thr Glu
 130 135 140
 Gly Phe Thr Tyr Lys Gln Val Val Asp Leu Ile Arg Ser Ser Gly Asn
 145 150 155 160
 Leu Leu Thr Ile Glu Thr Leu Asn Gly Thr Met Ile Leu Lys Arg Thr
 165 170 175
 Glu Leu Glu Ala Lys Leu Gln Val Leu Lys Gln Thr Leu Lys Gln Asn
 180 185 190
 Gly Trp Ser Thr Asp Leu Cys Ser Tyr Arg Asn Ile Val Cys Phe Met
 195 200 205
 Val Met Gln Leu Ile Ala Pro Val Trp Glu Asn Met Gly Leu Gly Met
 210 215 220
 Glu Leu Ser Leu Phe Gly Pro Leu Pro Gly Pro Gly Pro Ala Leu Val
 225 230 235 240
 Asp Arg Asn Arg Leu Ser Ser Glu Ser Ser Cys
 245 250

<210> 505

<211> 112

<212> PRT

507

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

Ile	Arg	Gln	Ser	Gly	Thr	Ser	Gly	Thr	Arg	Pro	Arg	Gly	Pro	Gln	Glu
1				5					10					15	

Pro	Arg	Ala	Ala	Xaa	Arg	Gly	Ser	Phe	Leu	Ala	Ser	Ala	Arg	Arg	Val
		20				25						30			

Gly	Ser	Trp	Leu	Val	Ser	Ala	Glu	Gly	Val	Gly	Gly	Pro	Ala	Leu	Leu
	35						40					45			

Phe	Ser	Pro	Ala	Lys	Pro	Gln	Trp	Glu	Leu	Gly	Gln	Gly	Glu	Ser	Gln
	50					55					60				

Ala	Ile	Gly	Gly	Gln	Xaa	Trp	Gly	Cys	Ser	Pro	Thr	Val	Cys	Ile	Cys
65					70					75				80	

Ser	Ala	Leu	Trp	Gly	Ile	Gln	Glu	His	Pro	Pro	Ser	Arg	Gly	Trp	Glu
				85					90					95	

Pro	Cys	Pro	Met	Lys	Pro	Ser	Pro	Gln	Leu	Tyr	Leu	Leu	Pro	Arg	Pro
			100					105					110		

<210> 506

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506

Lys Asn His Val Ser Ser Leu Ser Ser Tyr Phe Phe Phe Ser Xaa Phe

508

```

      1             5             10             15
Ser Leu Pro Arg Thr Phe Ser Leu Phe Ser Thr Asn Val His Leu Val
      20             25             30
Phe Phe Gly Ser Ala Lys Ile Ser Ile Cys Val Cys Leu Gln Leu Ser
      35             40             45
Leu Leu Thr Ala His Ser Lys Gly Phe Cys Ile Ser Gly Phe His Phe
      50             55             60
Val Ala Ala Glu Met Leu Arg Gln Ala Ser Ala Ser Ala Pro Ala Gly
      65             70             75             80
Cys Thr Met Leu Leu Pro Arg Arg Glu Asp Thr Glu Ser Lys Trp Gln
      85             90             95
Asp Leu Arg Leu Ala Ser Thr Leu Pro
      100             105

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<210> 507

<211> 406

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 507

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Val Lys Gly Asp Lys Gly Asn Pro Gly Trp Pro Gly Ala Pro Gly Val
  1             5             10             15
Pro Gly Pro Lys Gly Asp Pro Gly Phe Gln Gly Met Pro Gly Ile Gly
      20             25             30
Gly Ser Pro Gly Ile Thr Gly Ser Lys Gly Asp Met Gly Pro Pro Gly
      35             40             45
Val Pro Gly Phe Gln Gly Pro Lys Gly Leu Pro Gly Leu Gln Gly Ile
      50             55             60
Lys Gly Asp Gln Gly Asp Xaa Gly Val Pro Gly Ala Lys Gly Leu Pro
      65             70             75             80
Gly Pro Pro Gly Pro Pro Gly Pro Tyr Asp Ile Ile Lys Gly Glu Pro
      85             90             95

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Gly	Leu	Pro	Gly	Pro	Glu	Gly	Pro	Pro	Gly	Leu	Lys	Gly	Leu	Gln	Gly	100	105	110	
Leu	Pro	Gly	Pro	Lys	Gly	Gln	Gln	Gly	Val	Thr	Gly	Leu	Val	Gly	Ile	115	120	125	
Pro	Gly	Pro	Pro	Gly	Ile	Pro	Gly	Phe	Asp	Gly	Ala	Pro	Gly	Gln	Lys	130	135	140	
Gly	Glu	Met	Gly	Pro	Ala	Gly	Pro	Thr	Gly	Pro	Arg	Gly	Phe	Pro	Gly	145	150	155	160
Pro	Pro	Gly	Pro	Asp	Gly	Leu	Pro	Gly	Ser	Met	Gly	Pro	Pro	Gly	Thr	165	170	175	
Pro	Ser	Val	Asp	His	Gly	Phe	Leu	Val	Thr	Arg	His	Ser	Gln	Thr	Ile	180	185	190	
Asp	Asp	Pro	Gln	Cys	Pro	Ser	Gly	Thr	Lys	Ile	Leu	Tyr	His	Gly	Tyr	195	200	205	
Ser	Leu	Leu	Tyr	Val	Gln	Gly	Asn	Glu	Arg	Ala	His	Gly	Gln	Asp	Leu	210	215	220	
Gly	Thr	Ala	Gly	Ser	Cys	Leu	Arg	Lys	Phe	Ser	Thr	Met	Pro	Phe	Leu	225	230	235	240
Phe	Cys	Asn	Ile	Asn	Asn	Val	Cys	Asn	Phe	Ala	Ser	Arg	Asn	Asp	Tyr	245	250	255	
Ser	Tyr	Trp	Leu	Ser	Thr	Pro	Glu	Pro	Met	Pro	Met	Ser	Met	Ala	Pro	260	265	270	
Ile	Thr	Gly	Glu	Asn	Ile	Arg	Pro	Phe	Ile	Ser	Arg	Cys	Ala	Val	Cys	275	280	285	
Glu	Ala	Pro	Ala	Met	Val	Met	Ala	Val	His	Ser	Gln	Thr	Ile	Gln	Ile	290	295	300	
Pro	Pro	Cys	Pro	Ser	Gly	Trp	Ser	Ser	Leu	Trp	Ile	Gly	Tyr	Ser	Phe	305	310	315	320
Val	Met	His	Thr	Ser	Ala	Gly	Ala	Glu	Gly	Ser	Gly	Gln	Ala	Leu	Ala	325	330	335	
Ser	Pro	Gly	Ser	Cys	Leu	Glu	Glu	Phe	Arg	Ser	Ala	Pro	Phe	Ile	Glu	340	345	350	
Cys	His	Gly	Arg	Gly	Thr	Cys	Asn	Tyr	Tyr	Ala	Asn	Ala	Tyr	Ser	Phe	355	360	365	

510

Trp Leu Ala Thr Ile Glu Arg Ser Glu Met Phe Lys Lys Pro Thr Pro
 370 375 380

Ser Thr Leu Lys Ala Gly Glu Leu Arg Thr His Val Ser Arg Cys Gln
 385 390 395 400

Val Cys Met Arg Arg Thr
 405

<210> 508

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Leu Pro Ser Pro Asn Thr Gly Leu Trp Pro Gln Arg Xaa Ser Phe Ser
 1 5 10 15

Gly Arg Lys Phe Val Pro Thr Asp Cys Pro Pro Ala Phe Phe Pro Leu
 20 25 30

Ala Ala Ile Cys Cys Arg Leu Glu Pro Glu Ser Arg Pro Ala Phe Ser
 35 40 45

Lys Leu Glu Asp Ser Phe Glu Ala Leu Ser Leu Tyr Leu Gly Glu Leu
 50 55 60

Gly Ile Pro Leu Pro Ala Glu Leu Glu Glu Leu Asp His Thr Val Ser
 65 70 75 80

Met Gln Tyr Gly Leu Thr Arg Asp Ser Pro Pro
 85 90

<210> 509

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

511

<400> 509

Thr Cys Ile His Ile Gly Phe Gln Asp Ile Leu Ser Tyr Ile Phe Ser
 1 5 10 15

Ser Phe Gln Ser Cys Phe Leu Phe Trp Gly Tyr Phe Phe Phe Xaa Leu
 20 25 30

Cys Asn Ser Gln Arg Ala Ala Phe Phe Phe Phe Asn Lys Ala Tyr
 35 40 45

Asn Tyr Gly Trp Ile Phe Cys Ser Ser Leu Leu Arg Arg Ala Ile Leu
 50 55 60

Phe Phe Arg Val Thr Ser Lys Val Met Trp
 65 70

<210> 510

<211> 47

<212> PRT

<213> Homo sapiens

<400> 510

Leu Val Phe Phe Thr Asp Ser Leu Phe Ser Arg Arg Ala Phe Tyr Leu
 1 5 10 15

Asn Lys Thr Met Gln Leu Ser Lys Pro Ile Tyr Gly Leu Arg Glu Thr
 20 25 30

Phe Leu His Glu Phe Leu Gln Thr Val Cys Tyr Ile Phe Leu Glu
 35 40 45

<210> 511

<211> 246

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 511

Gly Ala Arg Ser Pro Ala Met Ser Arg Ser Asn Arg Gln Lys Glu Tyr
 1 5 10 15

Lys Cys Gly Asp Leu Val Phe Ala Lys Met Lys Gly Tyr Pro His Trp

512

20							25					30					
Pro	Ala	Arg	Ile	Asp	Glu	Met	Pro	Glu	Ala	Ala	Val	Lys	Ser	Thr	Ala		
35							40					45					
Asn	Lys	Tyr	Gln	Val	Phe	Phe	Phe	Gly	Thr	His	Glu	Thr	Ala	Phe	Leu		
50					55					60							
Gly	Pro	Lys	Asp	Leu	Phe	Pro	Tyr	Glu	Glu	Ser	Lys	Glu	Lys	Phe	Gly		
65					70					75						80	
Lys	Pro	Asn	Lys	Arg	Lys	Gly	Phe	Ser	Glu	Gly	Leu	Trp	Glu	Ile	Glu		
85					90					95							
Asn	Asn	Pro	Thr	Val	Lys	Ala	Ser	Gly	Tyr	Gln	Ser	Ser	Gln	Lys	Lys		
100					105					110							
Ser	Cys	Val	Glu	Glu	Pro	Glu	Pro	Glu	Pro	Glu	Ala	Ala	Glu	Gly	Asp		
115					120					125							
Gly	Asp	Lys	Lys	Gly	Asn	Ala	Glu	Gly	Ser	Ser	Asp	Glu	Glu	Gly	Lys		
130					135					140							
Leu	Val	Ile	Asp	Glu	Pro	Ala	Lys	Glu	Lys	Asn	Glu	Lys	Gly	Ala	Leu		
145					150					155						160	
Lys	Arg	Arg	Ala	Gly	Asp	Leu	Leu	Glu	Asp	Ser	Pro	Lys	Arg	Pro	Lys		
165					170					175							
Glu	Ala	Glu	Asn	Pro	Glu	Gly	Glu	Glu	Lys	Glu	Ala	Ala	Thr	Leu	Glu		
180					185					190							
Val	Glu	Arg	Pro	Leu	Pro	Met	Glu	Val	Glu	Lys	Asn	Ser	Thr	Xaa	Ser		
195					200					205							
Glu	Pro	Gly	Ser	Gly	Arg	Gly	Pro	Pro	Gln	Glu	Glu	Glu	Glu	Glu	Glu		
210					215					220							
Asp	Glu	Glu	Glu	Glu	Ala	Thr	Lys	Glu	Asp	Ala	Glu	Ala	Pro	Gly	Ile		
225					230					235						240	
Arg	Asp	His	Glu	Ser	Leu												
245																	

<210> 512

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Leu	Xaa	Trp	Glu	Thr	Val	Gln	Lys	Asn	Gln	Asn	Leu	Arg	Cys	Phe	Val
1				5					10					15	
Phe	Ile	Phe	Ile	Ser	Ser	Trp	Thr	Asp	Leu	Gly	Val	Ala	Thr	Val	Val
			20					25					30		
Cys	Gln	Pro	Asn	Glu	Phe	Ile	Met	Pro	Asp	Ser	Ala	Val	Val	Gly	Asp
		35					40					45			
Val	Leu	Val	Leu	Thr	Lys	Pro	Leu	Gly	Thr	Gln	Val	Ala	Val	Asn	Ala
	50					55					60				
His	Gln	Trp	Leu	Asp	Asn	Pro	Glu	Arg	Trp	Asn	Lys	Val	Lys	Met	Val
65					70					75					80
Val	Ser	Arg	Glu	Glu	Val	Glu	Leu	Ala	Tyr	Gln	Glu	Ala	Met	Phe	Asn
				85					90					95	
Met	Ala	Thr	Leu	Asn	Arg	Thr	Ala	Ala	Gly	Leu	Met	His	Thr	Phe	Asn
			100					105					110		
Ala	His	Ala	Ala	Thr	Asp	Ile	Thr	Gly	Phe	Gly	Ile	Leu	Gly	His	Ser
		115					120					125			
Gln	Asn	Leu	Ala	Lys	Gln	Gln	Arg	Asn	Glu	Val	Ser	Phe	Val	Ile	His
	130					135					140				
Asn	Leu	Pro	Ile	Ile	Ala	Lys	Met	Ala	Ala	Val	Ser	Lys	Ala	Ser	Gly
145					150					155					160
Arg	Phe	Gly	Leu	Leu	Gln	Gly	Thr	Ser	Ala	Glu	Thr	Ser	Gly	Gly	Leu
			165						170					175	
Leu	Ile	Cys	Leu	Pro	Arg	Glu	Gln	Ala	Ala	Arg	Phe	Cys	Ser	Glu	Ile
			180					185					190		
Lys	Ser	Ser	Lys	Tyr	Gly	Glu	Gly	His	Gln	Ala	Trp	Ile	Val	Gly	Ile
		195					200					205			
Val	Glu	Lys	Gly	Asn	Arg	Thr	Ala	Arg	Ile	Ile	Asp	Lys	Pro	Arg	Val
	210					215					220				
Ile	Glu	Val	Leu	Pro	Arg	Gly	Ala	Thr	Ala	Ala	Val	Leu	Ala	Pro	Asp
225					230					235					240

Ser Ser Asn Ala Ser Ser Glu Pro Ser Ser
245 250

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<210> 513
<211> 418
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (275)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (320)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 513
Pro Phe Glu Asp Ser Gly Gln Arg Arg His His Glu Gly Ala Gly Ser
  1          5          10          15
Ala Gly Pro Leu Leu Gln Ser Thr Ile Ile Val Glu Lys Thr Val Gln
          20          25          30
Asp Leu Leu Asn Leu Met His Asp Leu Ser Ala Tyr Ser Asp Gln Phe
          35          40          45
Leu Asn Met Val Cys Val Lys Xaa Gln Glu Tyr Lys Asp Thr Cys Thr
          50          55          60
Ala Ala Tyr Arg Gly Ile Val Gln Ser Glu Glu Lys Leu Val Ile Ser
  65          70          75          80
Ala Ser Trp Ala Lys Asp Asp Asp Ile Ser Arg Leu Leu Lys Ser Leu
          85          90          95
Pro Asn Trp Met Asn Met Ala Gln Pro Lys Gln Leu Arg Pro Lys Arg
          100          105          110

```

Glu	Glu	Glu	Glu	Asp	Phe	Ile	Arg	Ala	Ala	Phe	Gly	Lys	Glu	Ser	Glu	115	120	125
Val	Leu	Ile	Gly	Asn	Leu	Gly	Asp	Lys	Leu	Ile	Pro	Pro	Gln	Asp	Ile	130	135	140
Leu	Arg	Asp	Val	Ser	Asp	Leu	Lys	Ala	Leu	Ala	Asn	Met	His	Glu	Ser	145	150	155
Leu	Glu	Trp	Leu	Ala	Ser	Arg	Thr	Lys	Ser	Ala	Phe	Ser	Asn	Leu	Ser	165	170	175
Thr	Ser	Gln	Met	Leu	Ser	Pro	Ala	Gln	Asp	Ser	His	Thr	Asn	Thr	Asp	180	185	190
Leu	Pro	Pro	Val	Ser	Glu	Gln	Ile	Met	Gln	Thr	Leu	Ser	Glu	Leu	Ala	195	200	205
Lys	Ser	Phe	Gln	Xaa	Met	Ala	Asp	Arg	Cys	Leu	Leu	Val	Leu	His	Leu	210	215	220
Glu	Val	Arg	Val	His	Cys	Phe	His	Tyr	Leu	Ile	Pro	Leu	Ala	Lys	Glu	225	230	235
Gly	Asn	Tyr	Ala	Ile	Val	Ala	Asn	Val	Glu	Ser	Met	Asp	Tyr	Asp	Pro	245	250	255
Leu	Val	Val	Lys	Leu	Asn	Lys	Asp	Ile	Ser	Ala	Ile	Glu	Glu	Ala	Met	260	265	270
Ser	Ala	Xaa	Phe	Gln	Gln	His	Lys	Phe	Gln	Tyr	Ile	Phe	Glu	Gly	Leu	275	280	285
Gly	His	Leu	Ile	Ser	Cys	Ile	Leu	Ile	Asn	Gly	Ala	Gln	Tyr	Phe	Arg	290	295	300
Arg	Ile	Ser	Glu	Ser	Gly	Ile	Lys	Lys	Met	Cys	Arg	Asn	Ile	Phe	Xaa	305	310	315
Leu	Gln	Gln	Asn	Leu	Thr	Asn	Ile	Thr	Met	Ser	Arg	Glu	Ala	Asp	Leu	325	330	335
Asp	Phe	Ala	Arg	Gln	Tyr	Tyr	Glu	Met	Leu	Tyr	Asn	Thr	Ala	Asp	Glu	340	345	350
Leu	Leu	Asn	Leu	Val	Val	Asp	Gln	Gly	Val	Lys	Tyr	Thr	Glu	Leu	Glu	355	360	365
Tyr	Ile	His	Ala	Leu	Thr	Leu	Leu	His	Arg	Ser	Gln	Thr	Gly	Val	Gly	370	375	380

516

Glu Leu Thr Thr Gln Asn Thr Arg Leu Gln Arg Leu Lys Glu Ile Ile
385 390 395 400

Cys Glu Gln Ala Ala Ile Lys Gln Ala Thr Lys Asp Lys Lys Ile Thr
405 410 415

Thr Val

<210> 514

<211> 61

<212> PRT

<213> Homo sapiens

<400> 514

Lys Ala Ser Asp Cys Ser Met Leu Thr Pro Thr Ser Arg Tyr Glu Gln
1 5 10 15

Phe Thr Glu Asn Leu Pro Leu Trp Gln Leu Lys Met Glu Val Trp Gly
20 25 30

Ala Gln Thr Thr Leu Ser Asn Asn Ile Lys Ala Asn Ile Asn Ser His
35 40 45

Lys His Tyr Arg Ile Cys Lys Phe Arg Thr Phe Tyr Thr
50 55 60

<210> 515

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 515

Arg	Ser	Trp	Gly	Gly	Leu	Xaa	Arg	Ser	Thr	Gly	Thr	Ala	Arg	Arg	Thr
1				5					10					15	

Ser	Trp	Arg	Arg	Ser	Gly	Gln	Cys	Arg	Thr	Gly	Cys	Ala	Asp	Thr	Thr
			20					25					30		

Thr	Ser	Trp	Xaa	Xaa	Pro	Xaa	Thr	Leu	Gln	Arg	Arg	Val	Gln	Pro	Xaa
			35				40					45			

Val	Asn	Val	Ser	Pro	Ser	Lys	Lys	Gly	Pro	Leu	Gln	His	His	Asn	Leu
	50					55					60				

Leu	Val	Cys	His	Val	Thr	Asp	Phe	Tyr	Pro	Gly	Ser	Ile	Gln	Val	Arg
65					70					75					80

Trp	Phe	Leu	Asn	Gly	Gln	Glu	Glu	Thr	Ala	Gly	Val	Val	Ser	Thr	Asn
				85					90					95	

Leu	Ile	Arg	Asn	Gly	Asp	Trp	Thr	Phe	Gln	Ile	Leu	Val	Met	Leu	Glu
			100					105					110		

Met	Thr	Pro	Gln	Gln	Gly	Asp	Val	Tyr	Xaa	Cys	Gln	Val	Glu	His	Thr
		115					120					125			

Ser	Leu	Asp	Ser	Pro	Val	Thr	Val	Glu	Trp	Lys	Ala	Gln	Ser	Asp	Ser
	130					135					140				

Ala	Arg	Ser	Lys	Thr	Leu	Thr	Gly	Ala	Gly	Gly	Phe	Val	Leu	Gly	Leu
145					150					155					160

Ile	Ile	Cys	Gly	Val	Gly	Ile	Phe	Met	His	Arg	Arg	Ser	Lys	Lys	Val
			165						170					175	

Gln	Arg	Gly	Ser	Ala
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518

180

<210> 516

<211> 255

<212> PRT

<213> Homo sapiens

<400> 516

Ala	Leu	Glu	Arg	Arg	Val	Arg	Lys	Ser	Gly	Asp	Cys	Cys	Thr	Asp	Ser
1				5					10					15	

Gly	Thr	Met	Asn	Ile	Phe	Asp	Arg	Lys	Ile	Asn	Phe	Asp	Ala	Leu	Leu
			20					25					30		

Lys	Phe	Ser	His	Ile	Thr	Pro	Ser	Thr	Gln	Gln	His	Leu	Lys	Lys	Val
		35					40					45			

Tyr	Ala	Ser	Phe	Ala	Leu	Cys	Met	Phe	Val	Ala	Ala	Ala	Gly	Ala	Tyr
	50					55					60				

Val	His	Met	Val	Thr	His	Phe	Ile	Gln	Ala	Gly	Leu	Leu	Ser	Ala	Leu
65					70					75					80

Gly	Ser	Leu	Ile	Leu	Met	Ile	Trp	Leu	Met	Ala	Thr	Pro	His	Ser	His
				85					90					95	

Glu	Thr	Glu	Gln	Lys	Arg	Leu	Gly	Leu	Leu	Ala	Gly	Phe	Ala	Phe	Leu
			100					105					110		

Thr	Gly	Val	Gly	Leu	Gly	Pro	Ala	Leu	Glu	Phe	Cys	Ile	Ala	Val	Asn
		115					120					125			

Pro	Ser	Ile	Leu	Pro	Thr	Ala	Phe	Met	Gly	Thr	Ala	Met	Ile	Phe	Thr
	130					135					140				

Cys	Phe	Thr	Leu	Ser	Ala	Leu	Tyr	Ala	Arg	Arg	Arg	Ser	Tyr	Leu	Phe
145					150					155					160

Leu	Gly	Gly	Ile	Leu	Met	Ser	Ala	Leu	Ser	Leu	Leu	Leu	Leu	Ser	Ser
				165					170					175	

Leu	Gly	Asn	Val	Phe	Phe	Gly	Ser	Ile	Trp	Leu	Phe	Gln	Ala	Asn	Leu
		180						185					190		

Tyr	Val	Gly	Leu	Val	Val	Met	Cys	Gly	Phe	Val	Leu	Phe	Asp	Thr	Gln
		195					200					205			

Leu	Ile	Ile	Glu	Lys	Ala	Glu	His	Gly	Asp	Gln	Asp	Tyr	Ile	Trp	His
210						215					220				

519

Cys Ile Asp Leu Phe Leu Asp Phe Ile Thr Val Phe Arg Lys Leu Met
 225 230 235 240

Met Ile Leu Ala Met Asn Glu Lys Asp Lys Lys Lys Glu Lys Lys
 245 250 255

<210> 517

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 517

Xaa Val Gly Arg Gly Xaa Arg Cys Ser Ser Ala Ser Pro Gly Thr Pro
 1 5 10 15

Pro Pro Arg Ala Pro Ala Xaa Pro Ser Ala Gly Arg Ala Asp Pro Ala
 20 25 30

Val Leu Ser Pro Ala Ala Arg Ala Gly Ala Ala Pro Ser Ala Pro Gln
 35 40 45

Gln Thr Pro Ile Met Gly Ser Gln Ser Ser Lys Ala Pro Arg Gly Asp
 50 55 60

Val Thr Ala Glu Glu Ala Ala Gly Ala Ser Pro Ala Lys Ala Asn Gly
 65 70 75 80

Xaa Glu Asn Gly His Val Lys Ser Asn Gly Asp Leu Ser Pro Lys Gly

520

85								90				95			
Glu	Gly	Glu	Ser	Pro	Pro	Val	Asn	Gly	Thr	Asp	Glu	Ala	Ala	Gly	Ala
100				105				110							
Thr	Gly	Asp	Ala	Ile	Glu	Pro	Ala	Pro	Pro	Ser	Gln	Gly	Ala	Glu	Ala
115				120				125							
Lys	Gly	Glu	Val	Pro	Pro	Lys	Glu	Thr	Pro	Lys	Lys	Lys	Lys	Lys	Phe
130				135				140							
Ser	Phe	Lys	Lys	Pro	Phe	Lys	Leu	Ser	Gly	Leu	Ser	Phe	Lys	Arg	Asn
145				150				155				160			
Arg	Lys	Glu	Gly	Gly	Gly	Asp	Ser	Ser	Ala	Ser	Ser	Pro	Thr	Glu	Glu
165				170				175							
Glu	Gln	Glu	Gln	Gly	Glu	Ile	Gly	Ala	Cys	Ser	Asp	Glu	Gly	Thr	Ala
180				185				190							
Gln	Glu	Gly	Lys	Ala	Ala	Ala	Thr	Pro	Glu	Ser	Gln	Glu	Pro	Gln	Ala
195				200				205							
Lys	Gly	Ala	Glu	Ala	Ser	Ala	Ala	Ser	Glu	Glu	Glu	Ala	Gly	Pro	Gln
210				215				220							
Ala	Thr	Glu	Pro	Ser	Thr	Pro	Ser	Gly	Pro	Glu	Ser	Gly	Pro	Thr	Pro
225				230				235				240			
Ala	Ser	Ala	Glu	Gln	Asn	Glu									
245															

<210> 518

<211> 430

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 518

Gln Arg Gly Ala Arg Asp Ile Trp Pro Glu Xaa Leu Ser Gly Pro Thr
1 5 10 15

Arg Ala Pro Gly Ser Ala Ala Leu Pro Gly Ser Lys Gly Asp Thr Gly
20 25 30

521

Asn Pro Gly Ala Pro Gly Thr Pro Gly Thr Lys Gly Trp Ala Gly Asp
 35 40 45
 Ser Gly Pro Gln Gly Arg Pro Gly Val Phe Gly Leu Pro Gly Glu Lys
 50 55 60
 Gly Pro Arg Gly Glu Gln Gly Phe Met Gly Asn Thr Gly Pro Thr Gly
 65 70 75 80
 Ala Val Gly Asp Arg Gly Pro Lys Gly Pro Lys Gly Asp Pro Gly Phe
 85 90 95
 Pro Gly Ala Pro Gly Thr Val Gly Ala Pro Gly Ile Ala Gly Ile Pro
 100 105 110
 Gln Lys Ile Ala Val Gln Pro Gly Thr Val Gly Pro Gln Gly Arg Arg
 115 120 125
 Gly Pro Pro Gly Ala Pro Gly Glu Met Gly Pro Gln Gly Pro Pro Gly
 130 135 140
 Glu Pro Gly Phe Arg Gly Ala Pro Gly Lys Ala Gly Pro Gln Gly Arg
 145 150 155 160
 Gly Gly Val Ser Ala Val Pro Gly Phe Arg Gly Asp Glu Gly Pro Ile
 165 170 175
 Gly His Gln Gly Pro Ile Gly Gln Glu Gly Ala Pro Gly Arg Pro Gly
 180 185 190
 Ser Pro Gly Leu Pro Gly Met Pro Gly Arg Ser Val Ser Ile Gly Tyr
 195 200 205
 Leu Leu Val Lys His Ser Gln Thr Asp Gln Glu Pro Met Cys Pro Val
 210 215 220
 Gly Met Asn Lys Leu Trp Ser Gly Tyr Ser Leu Leu Tyr Phe Glu Gly
 225 230 235 240
 Gln Glu Lys Ala His Asn Gln Asp Leu Gly Leu Ala Gly Ser Cys Leu
 245 250 255
 Ala Arg Phe Ser Thr Met Pro Phe Leu Tyr Cys Asn Pro Gly Asp Val
 260 265 270
 Cys Tyr Tyr Ala Ser Arg Asn Asp Lys Ser Tyr Trp Leu Ser Thr Thr
 275 280 285
 Ala Pro Leu Pro Met Met Pro Val Ala Glu Asp Glu Ile Lys Pro Tyr
 290 295 300

522

Ile Ser Arg Cys Ser Val Cys Glu Ala Pro Ala Ile Ala Ile Ala Val
 305 310 315 320

His Ser Gln Asp Val Ser Ile Pro His Cys Pro Ala Gly Trp Arg Ser
 325 330 335

Leu Trp Ile Gly Tyr Ser Phe Leu Met His Thr Ala Ala Gly Asp Glu
 340 345 350

Gly Gly Gly Gln Ser Leu Val Ser Pro Gly Ser Cys Leu Glu Asp Phe
 355 360 365

Arg Ala Thr Pro Phe Ile Glu Cys Asn Gly Gly Arg Gly Thr Cys His
 370 375 380

Tyr Tyr Ala Asn Lys Tyr Ser Phe Trp Leu Thr Thr Ile Pro Glu Gln
 385 390 395 400

Ser Phe Gln Gly Ser Pro Ser Ala Asp Thr Leu Lys Ala Gly Leu Ile
 405 410 415

Arg Thr His Ile Ser Arg Cys Gln Val Cys Met Lys Asn Leu
 420 425 430

<210> 519

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

Ser Cys Phe Leu Arg Lys Asp Leu Ser Asn Trp Gln Leu Gln Arg His
 1 5 10 15

Tyr Phe Leu Thr Val Leu Tyr His Val Leu Leu Leu Thr Leu Gln Lys
 20 25 30

Gly Ser Gly Arg Glu Thr Val Ser Leu Phe Tyr Leu Phe Ser Leu Lys
 35 40 45

Tyr Lys Ser Ile Pro Thr Asn His Leu Leu Trp Ser Ala Cys Phe Thr
 50 55 60

Cys Pro Leu Xaa
 65

523

<210> 520
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520
Pro Arg Ser Pro Thr Gly Glu Trp Leu Pro Arg Asp Ser Glu Cys His
1 5 10 15

Leu Cys Met Ser Val Thr Thr Gln Ala Gly Asn Ser Ser Glu Gln Ala
20 25 30

Ile Pro Gln Ala Met Leu Gln Ala Cys Xaa Gly Ser Trp Leu Asp Arg
35 40 45

Glu Lys Cys Lys Gln Phe Xaa Glu Gln His Thr Pro Gln Leu Leu Thr
50 55 60

Leu Val Pro Arg Gly Trp Asp Ala His Thr Thr Cys Gln Ala Leu Gly
65 70 75 80

Val Cys Gly Thr Met Ser Ser Pro Leu Gln Cys Ile His Ser Pro Asp
85 90 95

Leu

<210> 521
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

524

<400> 521

```

Ser Gln Gly Leu Gly Asn Gly Gly Val Ala Gly Ser Ser Gly Gln Val
 1             5             10             15

Arg Thr Pro Ser Ala Gly Gln Val Ser Pro Phe Pro Pro Gln Ala Ser
      20             25             30

Leu Pro Gln Pro Ser Glu Arg Arg Arg Phe Arg Gly Ser Arg Ala Gly
      35             40             45

Gly Glu Lys Gln Thr Pro Ser Gln Gln Arg Gly Arg Met Gly Ala Gly
      50             55             60

Glu Leu Ala Lys Val Thr Ser Ser Arg Gly Glu Pro Arg Leu Arg Lys
      65             70             75             80

Ala Gly Gly Leu Trp Ala Arg Ser Arg Gln Lys Glu Gln Glu Gly Arg
      85             90             95

Glu Gly Ala Gln Gly Trp Pro Ala Xaa Gly Pro Ala Cys His Leu His
      100             105             110

Pro Pro Gln Phe His Phe Ser
      115

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<210> 522

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 522

```

Ala Arg Glu Arg Thr Asp Leu Trp Val Leu Gly Gly His Gly Ala Thr
 1             5             10             15

Arg Cys Met Arg Xaa Pro Arg Gly Gln Arg Pro Glu Ser Ala Leu Pro
      20             25             30

Val Ala Gly Ser Gly Arg Arg Ser Asp Pro Gly His Tyr Ser Phe Ser
      35             40             45

Met Arg Ser Pro Glu Leu Ala Leu Pro Arg Gly Met Gln Pro Thr Glu
      50             55             60

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525

Phe Phe Gln Ser Leu Gly Gly Asp Gly Glu Arg Asn Val Gln Ile Glu
 65 70 75 80
 Met Ala His Gly Thr Thr Thr Leu Ala Phe Lys Phe Gln His Gly Val
 85 90 95
 Ile Ala Ala Val Asp Ser Arg Ala Ser Ala Gly Ser Tyr Ile Ser Ala
 100 105 110
 Leu Arg Val Asn Lys Val Ile Glu Ile Asn Pro Tyr Leu Leu Gly Thr
 115 120 125
 Met Ser Gly Cys Ala Ala Asp Cys Gln Tyr Trp Glu Arg Leu Leu Ala
 130 135 140
 Lys Glu Cys Arg Leu Tyr Tyr Leu Arg Asn Gly Glu Arg Ile Ser Val
 145 150 155 160
 Ser Ala Ala Ser Lys Leu Leu Ser Asn Met Met Cys Gln Tyr Arg Gly
 165 170 175
 Met Gly Leu Ser Met Gly Ser Met Ile Cys Gly Trp Asp Lys Lys Gly
 180 185 190
 Pro Gly Leu Tyr Tyr Val Asp Glu His Gly Thr Arg Leu Ser Gly Asn
 195 200 205
 Met Phe Ser Thr Gly Ser Gly Asn Thr Tyr Ala Tyr Gly Val Met Asp
 210 215 220
 Ser Gly Tyr Arg Pro Asn Leu Ser Pro Glu Glu Ala Tyr Asp Leu Gly
 225 230 235 240
 Arg Arg Leu Leu Leu Met Pro Leu Thr Glu Thr Ala Ile Leu Glu Ala
 245 250 255
 Leu Ser Ile Cys Thr Thr
 260

<210> 523

<211> 110

<212> PRT

<213> Homo sapiens

<400> 523

Thr Arg Arg Thr Cys Asp Phe Thr Val Ile Leu Leu Pro Ala Arg Ala
 1 5 10 15

His Leu Ala Met Ala Met Phe Ala Leu Asn Gly Gly Glu Ser Leu Ser

526

20 25 30
 Leu Leu Asp Gln Ile Leu Leu His Tyr Tyr Thr Ser Thr Leu Phe Ile
 35 40 45
 Trp Gly Trp Ala Gly Ser Asp Ser Ser Leu Val Val Gln Leu Pro Asp
 50 55 60
 Tyr Cys Pro Ile Leu Leu Glu Ala His Val Cys Gln Gly Val Val Cys
 65 70 75 80
 Thr Ala Val Phe Gly Thr Ser Ser Leu Phe Ser Ala Ile Ser Phe Pro
 85 90 95
 Tyr Leu Ser Phe Ser Val Asp Phe Ile His His Arg Thr Glu
 100 105 110

<210> 524
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 524
 Leu Glu Lys Glu Glu Tyr Ala Thr Glu Thr Val Cys Ser Leu Gln Ser
 1 5 10 15
 Leu Lys Cys Leu Leu Ser Gly Leu Gly Val Cys Leu Pro Cys Ser Arg
 20 25 30
 Leu Ser Ala Ser Gly Thr Val Val Gln Tyr Ser Gly Thr Ala Gln Leu
 35 40 45
 His Phe Ser Ala Arg
 50

<210> 525
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 525
 Arg Ser Cys Ser Gly Cys Ala Arg Ser Gly Leu Arg Arg Glu Val Pro
 1 5 10 15
 Arg Gln Arg Glu Ala Pro Pro Pro Pro Arg Ser Val Leu His Leu
 20 25 30

527

Ser Ala Thr Leu Ala Gly Ala Ala Ala Ala Arg Gly Thr Leu Asn Met
 35 40 45
 Ser Gly Ile Ala Leu Ser Arg Leu Ala Gln Glu Arg Lys Ala Trp Arg
 50 55 60
 Lys Asp His Pro Phe Gly Phe Val Ala Val Pro Thr Lys Asn Pro Asp
 65 70 75 80
 Gly Thr Met Asn Leu Met Asn Trp Glu Cys Ala Ile Pro Gly Lys Lys
 85 90 95
 Gly Thr Pro Trp Glu Gly Gly Leu Phe Lys Leu Arg Met Leu Phe Lys
 100 105 110
 Asp Asp Tyr Pro Ser Ser Pro Pro Lys Cys Lys Phe Glu Pro Pro Leu
 115 120 125
 Phe His Pro Asn Val Tyr Pro Ser Gly Thr Val Cys Leu Ser Ile Leu
 130 135 140
 Glu Glu Asp Lys Asp Trp Arg Pro Ala Ile Thr Ile Lys Gln Ile Leu
 145 150 155 160
 Leu Gly Ile Gln Glu Leu Leu Asn Glu Pro Asn Ile Gln Asp Pro Ala
 165 170 175
 Gln Ala Glu Ala Tyr Thr Ile Tyr Cys Gln Asn Arg Val Glu Tyr Glu
 180 185 190
 Lys Arg Val Arg Ala Gln Ala Lys Lys Phe Ala Pro Ser
 195 200 205

<210> 526

<211> 90

<212> PRT

<213> Homo sapiens

<400> 526

Phe Gly Arg Ala Arg Leu Ile Glu Asp Asn Glu Tyr Thr Ala Arg Gln
 1 5 10 15
 Gly Ala Lys Phe Pro Ile Lys Trp Thr Ala Pro Glu Ala Ala Leu Tyr
 20 25 30
 Gly Arg Phe Thr Ile Lys Ser Asp Val Trp Ser Phe Gly Ile Leu Leu
 35 40 45
 Thr Glu Leu Val Thr Lys Gly Arg Val Pro Tyr Pro Gly Met Asn Asn

528

50 55 60
 Arg Glu Val Leu Glu Gln Val Glu Arg Gly Tyr Arg Met Pro Cys Pro
 65 70 75 80
 Gln Thr Ala Pro Ser Leu Cys Met Ser Ser
 85 90

<210> 527

<211> 479

<212> PRT

<213> Homo sapiens

<400> 527

Ala Trp Ser Ile Met Ala Asp Met Gln Asn Leu Val Glu Arg Leu Glu
 1 5 10 15
 Arg Ala Val Gly Arg Leu Glu Ala Val Ser His Thr Ser Asp Met His
 20 25 30
 Arg Gly Tyr Ala Asp Ser Pro Ser Lys Ala Gly Ala Ala Pro Tyr Val
 35 40 45
 Gln Ala Phe Asp Ser Leu Leu Ala Gly Pro Val Ala Glu Tyr Leu Lys
 50 55 60
 Ile Ser Lys Glu Ile Gly Gly Asp Val Gln Lys His Ala Glu Met Val
 65 70 75 80
 His Thr Gly Leu Lys Leu Glu Arg Ala Leu Leu Val Thr Ala Ser Gln
 85 90 95
 Cys Gln Gln Pro Ala Glu Asn Lys Leu Ser Asp Leu Leu Ala Pro Ile
 100 105 110
 Ser Glu Gln Ile Lys Glu Val Ile Thr Phe Arg Glu Lys Asn Arg Gly
 115 120 125
 Ser Lys Leu Phe Asn His Leu Ser Ala Val Ser Glu Ser Ile Gln Ala
 130 135 140
 Leu Gly Trp Val Ala Met Ala Pro Lys Pro Gly Pro Tyr Val Lys Glu
 145 150 155 160
 Met Asn Asp Ala Ala Met Phe Tyr Thr Asn Arg Val Leu Lys Glu Tyr
 165 170 175
 Lys Asp Val Asp Lys Lys His Val Asp Trp Val Lys Ala Tyr Leu Ser
 180 185 190

Ile	Trp	Thr	Glu	Leu	Gln	Ala	Tyr	Ile	Lys	Glu	Phe	His	Thr	Thr	Gly	195	200	205	
Leu	Ala	Trp	Ser	Lys	Thr	Gly	Pro	Val	Ala	Lys	Glu	Leu	Ser	Gly	Leu	210	215	220	
Pro	Ser	Gly	Pro	Ser	Ala	Gly	Ser	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Gly	225	230	235	240
Pro	Pro	Pro	Pro	Pro	Val	Ser	Thr	Ser	Ser	Gly	Ser	Asp	Glu	Ser	Ala	245	250	255	
Ser	Arg	Ser	Ala	Leu	Phe	Ala	Gln	Ile	Asn	Gln	Gly	Glu	Ser	Ile	Thr	260	265	270	
His	Ala	Leu	Lys	His	Val	Ser	Asp	Asp	Met	Lys	Thr	His	Lys	Asn	Pro	275	280	285	
Ala	Leu	Lys	Ala	Gln	Ser	Gly	Pro	Val	Arg	Ser	Gly	Pro	Lys	Pro	Phe	290	295	300	
Ser	Ala	Pro	Lys	Pro	Gln	Thr	Ser	Pro	Ser	Pro	Lys	Arg	Ala	Thr	Lys	305	310	315	320
Lys	Glu	Pro	Ala	Val	Leu	Glu	Leu	Glu	Gly	Lys	Lys	Trp	Arg	Val	Glu	325	330	335	
Asn	Gln	Glu	Asn	Val	Ser	Asn	Leu	Val	Ile	Glu	Asp	Thr	Glu	Leu	Lys	340	345	350	
Gln	Val	Ala	Tyr	Ile	Tyr	Lys	Cys	Val	Asn	Thr	Thr	Leu	Gln	Ile	Lys	355	360	365	
Gly	Lys	Ile	Asn	Ser	Ile	Thr	Val	Asp	Asn	Cys	Lys	Lys	Leu	Gly	Leu	370	375	380	
Val	Phe	Asp	Asp	Val	Val	Gly	Ile	Val	Glu	Ile	Ile	Asn	Ser	Lys	Asp	385	390	395	400
Val	Lys	Val	Gln	Val	Met	Gly	Lys	Val	Pro	Thr	Ile	Ser	Ile	Asn	Lys	405	410	415	
Thr	Asp	Gly	Cys	His	Ala	Tyr	Leu	Ser	Lys	Asn	Ser	Leu	Asp	Cys	Glu	420	425	430	
Ile	Val	Ser	Ala	Lys	Ser	Ser	Glu	Met	Asn	Val	Leu	Ile	Pro	Thr	Glu	435	440	445	
Gly	Gly	Asp	Phe	Asn	Glu	Phe	Pro	Val	Pro	Glu	Gln	Phe	Lys	Thr	Leu	450	455	460	

Trp Asn Gly Gln Lys Leu Val Thr Thr Val Thr Glu Ile Ala Gly
 465 470 475

<210> 528

<211> 605

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Asn His Xaa Arg Thr Arg Asp Gln Glu Ala Pro Xaa Asp Val Gln Val
 1 5 10 15

Arg Pro Glu Asp Thr Pro Ser Asp Leu Ser Val Ser Asn Ser Ser Val
 20 25 30

Ile Leu Glu Asn Thr Met Glu Asp His Ala Ala Glu Ala Ser Gly Lys
 35 40 45

Pro	Leu	Gly	Glu	Ile	Ser	Val	Pro	Leu	Asp	Ser	Ser	Leu	Leu	Cys	Thr	50	55	60	
Leu	Ser	Ser	Glu	Ser	His	Gln	Glu	Ala	Ala	Ser	Asn	Glu	Asn	Asp	Lys	65	70	75	80
Lys	Xaa	Gly	Asn	Tyr	Lys	Ser	Met	Leu	Arg	Pro	Glu	Val	Gly	Thr	Thr	85	90	95	
Ser	Gln	Asp	Ser	Ala	Leu	Leu	Asp	Gln	Glu	Leu	Tyr	Asn	Ser	Phe	His	100	105	110	
Phe	Trp	Arg	Thr	Pro	Leu	Pro	Glu	Ile	Asp	Leu	Asp	Ile	Glu	Leu	Glu	115	120	125	
Gln	Asn	Ser	Gly	Gly	Lys	Pro	Ser	Pro	Glu	Gly	Pro	Glu	Glu	Glu	Ser	130	135	140	
Glu	Gly	Pro	Val	Pro	Ser	Ser	Pro	Asn	Ile	Thr	Met	Ala	Thr	Arg	Lys	145	150	155	160
Glu	Leu	Glu	Glu	Met	Ile	Glu	Asn	Leu	Glu	Pro	His	Ile	Asp	Asp	Pro	165	170	175	
Asp	Val	Lys	Ala	Gln	Val	Glu	Val	Leu	Ser	Ala	Ala	Leu	Arg	Xaa	Ser	180	185	190	
Ser	Leu	Asp	Ala	His	Glu	Glu	Thr	Ile	Ser	Ile	Glu	Lys	Arg	Ser	Asp	195	200	205	
Leu	Gln	Asp	Glu	Leu	Asp	Ile	Asn	Glu	Leu	Pro	Asn	Cys	Lys	Ile	Asn	210	215	220	
Gln	Glu	Asp	Ser	Val	Pro	Leu	Ile	Ser	Asp	Ala	Val	Glu	Asn	Met	Asp	225	230	235	240
Ser	Thr	Leu	His	Tyr	Ile	His	Xaa	Asp	Ser	Asp	Leu	Ser	Asn	Asn	Ser	245	250	255	
Ser	Phe	Ser	Pro	Asp	Glu	Glu	Arg	Arg	Thr	Lys	Val	Gln	Asp	Val	Val	260	265	270	
Pro	Gln	Ala	Leu	Leu	Asp	Gln	Tyr	Leu	Ser	Met	Thr	Asp	Pro	Ser	Arg	275	280	285	
Ala	Gln	Thr	Val	Asp	Thr	Glu	Ile	Ala	Lys	His	Cys	Ala	Tyr	Ser	Leu	290	295	300	
Pro	Gly	Val	Ala	Leu	Thr	Leu	Gly	Arg	Gln	Asn	Trp	His	Cys	Leu	Arg	305	310	315	320

532

Glu	Thr	Tyr	Xaa	Thr	Leu	Ala	Ser	Asp	Met	Gln	Trp	Lys	Val	Arg	Arg	325	330	335	
Thr	Leu	Ala	Phe	Ser	Ile	His	Glu	Leu	Ala	Val	Ile	Leu	Gly	Asp	Gln	340	345	350	
Leu	Thr	Ala	Ala	Asp	Leu	Val	Pro	Ile	Phe	Asn	Gly	Phe	Leu	Lys	Asp	355	360	365	
Leu	Asp	Glu	Val	Arg	Ile	Gly	Val	Leu	Lys	His	Leu	His	Asp	Phe	Leu	370	375	380	
Lys	Leu	Leu	His	Ile	Asp	Lys	Arg	Arg	Glu	Tyr	Leu	Tyr	Gln	Leu	Gln	385	390	395	400
Glu	Phe	Leu	Val	Thr	Asp	Asn	Ser	Arg	Asn	Trp	Arg	Phe	Arg	Ala	Glu	405	410	415	
Leu	Ala	Glu	Gln	Leu	Ile	Leu	Leu	Leu	Glu	Leu	Tyr	Ser	Pro	Arg	Asp	420	425	430	
Val	Tyr	Asp	Tyr	Leu	Arg	Pro	Ile	Ala	Leu	Asn	Leu	Cys	Ala	Asp	Lys	435	440	445	
Val	Ser	Ser	Val	Arg	Trp	Ile	Ser	Tyr	Lys	Leu	Val	Ser	Glu	Met	Val	450	455	460	
Lys	Lys	Leu	His	Ala	Ala	Thr	Pro	Pro	Thr	Phe	Gly	Val	Asp	Leu	Ile	465	470	475	480
Asn	Glu	Leu	Val	Glu	Asn	Phe	Gly	Arg	Cys	Pro	Lys	Trp	Ser	Gly	Arg	485	490	495	
Gln	Ala	Phe	Val	Phe	Val	Cys	Gln	Thr	Val	Ile	Glu	Asp	Asp	Cys	Leu	500	505	510	
Pro	Met	Asp	Gln	Phe	Ala	Val	His	Leu	Met	Pro	His	Leu	Leu	Thr	Leu	515	520	525	
Ala	Asn	Asp	Arg	Val	Pro	Asn	Val	Arg	Val	Leu	Leu	Ala	Lys	Thr	Leu	530	535	540	
Arg	Gln	Thr	Leu	Leu	Glu	Lys	Asp	Tyr	Phe	Leu	Ala	Ser	Ala	Ser	Cys	545	550	555	560
His	Gln	Glu	Ala	Val	Glu	Gln	Thr	Ile	Met	Ala	Leu	Gln	Met	Asp	Arg	565	570	575	
Asp	Ser	Asp	Val	Lys	Tyr	Phe	Ala	Ser	Ile	His	Pro	Ala	Ser	Thr	Lys	580	585	590	

533

Ile Ser Glu Asp Ala Met Ser Thr Ala Ser Ser Thr Tyr
 595 600 605

<210> 529

<211> 179

<212> PRT

<213> Homo sapiens

<400> 529

His Tyr Arg Arg Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 1 5 10 15

Thr His Ala Ser Glu Leu Gly Thr Ser Leu Ser Ala Met Arg Phe Leu
 20 25 30

Ala Ala Thr Phe Leu Leu Leu Ala Leu Ser Thr Ala Ala Gln Ala Glu
 35 40 45

Pro Val Gln Phe Lys Asp Cys Gly Ser Val Asp Gly Val Ile Lys Glu
 50 55 60

Val Asn Val Ser Pro Cys Pro Thr Gln Pro Cys Gln Leu Ser Lys Gly
 65 70 75 80

Gln Ser Tyr Ser Val Asn Val Thr Phe Thr Ser Asn Ile Gln Ser Lys
 85 90 95

Ser Ser Lys Ala Val Val His Gly Ile Leu Met Gly Val Pro Val Pro
 100 105 110

Phe Pro Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly Ile Asn Cys Pro
 115 120 125

Ile Gln Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys Leu Pro Val Lys
 130 135 140

Ser Glu Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu Gln Asp
 145 150 155 160

Asp Lys Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln Ile Val
 165 170 175

Ser His Leu

<210> 530

<211> 168

534

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 530

Val	Arg	Ala	Glu	His	Cys	Ala	Val	Trp	Glu	Arg	Asn	Phe	Glu	Glu	Thr
1				5					10					15	

Val	Arg	Trp	Phe	Trp	Arg	Leu	Gly	Ser	Pro	Arg	Pro	Val	Gly	Ser	His
			20					25					30		

Leu	Thr	Ser	Val	Lys	Phe	Leu	Met	Thr	Ser	Pro	Glu	Ile	Ala	Ser	Leu
		35					40						45		

Ser	Trp	Gly	Gln	Met	Lys	Val	Lys	Gly	Ser	Asn	Thr	Thr	Tyr	Lys	Asp
	50					55					60				

Cys	Lys	Val	Trp	Pro	Gly	Gly	Ser	Arg	Thr	Trp	Asp	Trp	Arg	Glu	Thr
65					70					75				80	

Gly	Thr	Glu	His	Ser	Pro	Gly	Val	Gln	Pro	Ala	Asp	Val	Lys	Glu	Val
				85					90					95	

Val	Glu	Lys	Gly	Val	Gln	Thr	Leu	Val	Ile	Gly	Arg	Gly	Met	Ser	Glu
			100					105					110		

Ala	Leu	Lys	Val	Pro	Ser	Ser	Thr	Val	Glu	Tyr	Leu	Lys	Lys	His	Gly
		115					120					125			

Ile	Asp	Val	Arg	Val	Leu	Gln	Thr	Glu	Gln	Ala	Val	Lys	Glu	Tyr	Asn
	130					135						140			

Ala	Leu	Val	Ala	Lys	Gly	Ser	Gly	Trp	Glu	Val	Ser	Ser	Ile	Pro	Pro
145					150					155				160	

Ala	Asp	Gly	Ala	Leu	Arg	Xaa	Glu
				165			

<210> 531

<211> 705

<212> PRT

<213> Homo sapiens

<400> 531

Glu	Pro	Arg	Ala	Arg	Ala	Thr	Arg	Arg	Gly	Met	Ala	Ala	Thr	Gly	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

535

1	5	10	15
Ala Ala Ala Ala Ala Thr Gly Arg Leu Leu Leu Leu Leu Leu Val Gly	20	25	30
Leu Thr Ala Pro Ala Leu Ala Leu Ala Gly Tyr Ile Glu Ala Leu Ala	35	40	45
Ala Asn Ala Gly Thr Gly Phe Ala Val Ala Glu Pro Gln Ile Ala Met	50	55	60
Phe Cys Gly Lys Leu Asn Met His Val Asn Ile Gln Thr Gly Lys Trp	65	70	75
Glu Pro Asp Pro Thr Gly Thr Lys Ser Cys Phe Glu Thr Lys Glu Glu	85	90	95
Val Leu Gln Tyr Cys Gln Glu Met Tyr Pro Glu Leu Gln Ile Thr Asn	100	105	110
Val Met Glu Ala Asn Gln Arg Val Ser Ile Asp Asn Trp Cys Arg Arg	115	120	125
Asp Lys Lys Gln Cys Lys Ser Arg Phe Val Thr Pro Phe Lys Cys Leu	130	135	140
Val Gly Glu Phe Val Ser Asp Val Leu Leu Val Pro Glu Lys Cys Gln	145	150	155
Phe Phe His Lys Glu Arg Met Glu Val Cys Glu Asn His Gln His Trp	165	170	175
His Thr Val Val Lys Glu Ala Cys Leu Thr Gln Gly Met Thr Leu Tyr	180	185	190
Ser Tyr Gly Met Leu Leu Pro Cys Gly Val Asp Gln Phe His Gly Thr	195	200	205
Glu Tyr Val Cys Cys Pro Gln Thr Lys Ile Ile Gly Ser Val Ser Lys	210	215	220
Glu Glu Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu Asp Glu Glu	225	230	235
Glu Asp Tyr Asp Val Tyr Lys Ser Glu Phe Pro Thr Glu Ala Asp Leu	245	250	255
Glu Asp Phe Thr Glu Ala Ala Val Asp Glu Asp Asp Glu Asp Glu Glu	260	265	270
Glu Gly Glu Glu Val Val Glu Asp Arg Asp Tyr Tyr Tyr Asp Thr Phe			

536

275		280		285
Lys Gly Asp Asp Tyr Asn Glu Glu Asn Pro Thr Glu Pro Gly Ser Asp				
290		295		300
Gly Thr Met Ser Asp Lys Glu Ile Thr His Asp Val Lys Val Pro Pro				
305		310		315 320
Thr Pro Leu Pro Thr Asn Asp Val Asp Val Tyr Phe Glu Thr Ser Ala				
		325		330 335
Asp Asp Asn Glu His Ala Arg Phe Gln Lys Ala Lys Glu Gln Leu Glu				
		340		345 350
Ile Arg His Arg Asn Arg Met Asp Arg Val Lys Lys Glu Trp Glu Glu				
		355		360 365
Ala Glu Leu Gln Ala Lys Asn Leu Pro Lys Ala Glu Arg Gln Thr Leu				
		370		375 380
Ile Gln His Phe Gln Ala Met Val Lys Ala Leu Glu Lys Glu Ala Ala				
385		390		395 400
Ser Glu Lys Gln Gln Leu Val Glu Thr His Leu Ala Arg Val Glu Ala				
		405		410 415
Met Leu Asn Asp Arg Arg Arg Met Ala Leu Glu Asn Tyr Leu Ala Ala				
		420		425 430
Leu Gln Ser Asp Pro Pro Arg Pro His Arg Ile Leu Gln Ala Leu Arg				
		435		440 445
Arg Tyr Val Arg Ala Glu Asn Lys Asp Arg Leu His Thr Ile Arg His				
		450		455 460
Tyr Gln His Val Leu Ala Val Asp Pro Glu Lys Ala Ala Gln Met Lys				
465		470		475 480
Ser Gln Val Met Thr His Leu His Val Ile Glu Glu Arg Arg Asn Gln				
		485		490 495
Ser Leu Ser Leu Leu Tyr Lys Val Pro Tyr Val Ala Gln Glu Ile Gln				
		500		505 510
Glu Glu Ile Asp Glu Leu Leu Gln Glu Gln Arg Ala Asp Met Asp Gln				
		515		520 525
Phe Thr Ala Ser Ile Ser Glu Thr Pro Val Asp Val Arg Val Ser Ser				
		530		535 540
Glu Glu Ser Glu Glu Ile Pro Pro Phe His Pro Phe His Pro Phe Pro				

537

545 550 555 560
 Ala Leu Pro Glu Asn Glu Gly Ser Gly Val Gly Glu Gln Asp Gly Gly
 565 570 575
 Leu Ile Gly Ala Glu Glu Lys Val Ile Asn Ser Lys Asn Lys Val Asp
 580 585 590
 Glu Asn Met Val Ile Asp Glu Thr Leu Asp Val Lys Glu Met Ile Phe
 595 600 605
 Asn Ala Glu Arg Val Gly Gly Leu Glu Glu Glu Arg Glu Ser Val Gly
 610 615 620
 Pro Leu Arg Glu Asp Phe Ser Leu Ser Ser Ser Ala Leu Ile Gly Leu
 625 630 635 640
 Leu Val Ile Ala Val Ala Ile Ala Thr Val Ile Val Ile Ser Leu Val
 645 650 655
 Met Leu Arg Lys Arg Gln Tyr Gly Thr Ile Ser His Gly Ile Val Glu
 660 665 670
 Val Asp Pro Met Leu Thr Pro Glu Glu Arg His Leu Asn Lys Met Gln
 675 680 685
 Asn His Gly Tyr Glu Asn Pro Thr Tyr Lys Tyr Leu Glu Gln Met Gln
 690 695 700
 Ile
 705

<210> 532

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 532

Ser Arg Leu Pro Glu Pro Pro Gly Phe Leu Val Lys Phe Ala Glu Glu
 1 5 10 15
 Asp Leu Ser Val Leu Thr Tyr Met Leu His Arg Thr Asn Glu Ser Leu
 20 25 30

538

Arg Gln Ser Phe Phe Thr Gln Gln Arg Leu Ile Phe Phe His Pro Leu
 35 40 45

Leu Gly Xaa Lys His Ser Cys Pro Ala Cys Leu His Phe Lys His Asp
 50 55 60

Gln Asn Cys Ala Ser Leu Gln Ile Thr Thr Asp Gln Gln Trp Gly Pro
 65 70 75 80

Ala Ser

<210> 533

<211> 283

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 533

Lys Arg Phe Leu Lys Arg Ile Arg Asp Leu Gly Glu Gly His Phe Gly
 1 5 10 15

Lys Val Glu Leu Cys Arg Tyr Asp Pro Glu Xaa Xaa Asn Thr Gly Glu
 20 25 30

Gln Val Ala Val Lys Ser Leu Lys Pro Glu Ser Gly Gly Asn His Ile
 35 40 45

Ala Asp Leu Lys Lys Glu Ile Glu Ile Leu Arg Asn Leu Tyr His Glu
 50 55 60

Asn Ile Val Lys Tyr Lys Gly Ile Cys Thr Glu Asp Gly Gly Asn Gly
 65 70 75 80

Ile Lys Leu Ile Met Glu Phe Leu Pro Ser Gly Ser Leu Lys Glu Tyr
 85 90 95

Leu Pro Lys Asn Lys Asn Lys Ile Asn Leu Lys Gln Gln Leu Lys Tyr
 100 105 110

539

Ala Val Gln Ile Cys Lys Gly Met Asp Tyr Leu Gly Ser Arg Gln Tyr
 115 120 125

Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Glu Ser Glu His
 130 135 140

Gln Val Lys Ile Gly Asp Phe Gly Leu Thr Lys Ala Ile Glu Thr Asp
 145 150 155 160

Lys Glu Tyr Tyr Thr Val Lys Asp Asp Arg Asp Ser Pro Val Phe Trp
 165 170 175

Tyr Ala Pro Glu Cys Leu Met Gln Ser Lys Phe Tyr Ile Ala Ser Asp
 180 185 190

Val Trp Ser Phe Gly Val Thr Leu His Glu Leu Leu Thr Tyr Cys Asp
 195 200 205

Ser Asp Ser Ser Pro Met Ala Leu Phe Leu Lys Met Ile Gly Pro Thr
 210 215 220

His Gly Gln Met Thr Val Thr Arg Leu Val Asn Thr Leu Lys Glu Gly
 225 230 235 240

Lys Arg Leu Pro Cys Pro Pro Asn Cys Pro Asp Glu Val Tyr Gln Leu
 245 250 255

Met Arg Lys Cys Trp Glu Phe Gln Pro Ser Asn Arg Thr Ser Phe Gln
 260 265 270

Asn Leu Ile Glu Gly Phe Glu Ala Leu Leu Lys
 275 280

<210> 534

<211> 246

<212> PRT

<213> Homo sapiens

<400> 534

Phe Arg Ala Glu Arg Glu Glu Asn Phe Phe Leu Ala Trp Ala Pro Cys
 1 5 10 15

Arg Ser Val Cys Gln Pro Ser Ser Pro Ala Tyr Gln Cys Arg Ala Leu
 20 25 30

Pro Thr Pro Pro Pro Ala Pro Pro Val Ser Ala Met Ala Lys Ala Tyr
 35 40 45

Asp His Leu Phe Lys Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys

540

50 55 60
 Thr Cys Leu Ile Ile Arg Phe Ala Glu Asp Asn Phe Asn Asn Thr Tyr
 65 70 75 80
 Ile Ser Thr Ile Gly Ile Asp Phe Lys Ile Arg Thr Val Asp Ile Glu
 85 90 95
 Gly Lys Lys Ile Lys Leu Gln Val Trp Asp Thr Ala Gly Gln Glu Arg
 100 105 110
 Phe Lys Thr Ile Thr Thr Ala Tyr Tyr Arg Gly Ala Met Gly Ile Ile
 115 120 125
 Leu Val Tyr Asp Ile Thr Asp Glu Lys Ser Phe Glu Asn Ile Gln Asn
 130 135 140
 Trp Met Lys Ser Ile Lys Glu Asn Ala Ser Ala Gly Val Glu Arg Leu
 145 150 155 160
 Leu Leu Gly Asn Lys Cys Asp Met Glu Ala Lys Arg Lys Val Gln Lys
 165 170 175
 Glu Gln Ala Asp Lys Leu Ala Arg Glu His Gly Ile Arg Phe Phe Glu
 180 185 190
 Thr Ser Ala Lys Ser Ser Met Asn Val Asp Glu Ala Phe Ser Ser Leu
 195 200 205
 Ala Arg Asp Ile Leu Leu Lys Ser Gly Gly Arg Arg Ser Gly Asn Gly
 210 215 220
 Asn Lys Pro Pro Ser Thr Asp Leu Lys Thr Cys Asp Lys Lys Asn Thr
 225 230 235 240
 Asn Lys Cys Ser Leu Gly
 245

<210> 535

<211> 276

<212> PRT

<213> Homo sapiens

<400> 535

Pro Lys Val Phe Phe Asn Ile Leu Glu Glu Ala Arg Glu Leu Ala Leu
 1 5 10 15

Gln Gln Glu Glu Gly Lys Thr Val Met Tyr Thr Ala Val Gly Ser Glu
 20 25 30

541

Trp Arg Pro Phe Gly Tyr Pro Arg Arg Arg Gln Pro Leu Asn Ser Val
 35 40 45
 Val Leu Gln Gln Gly Leu Ala Asp Arg Ile Val Arg Asp Val Gln Glu
 50 55 60
 Phe Ile Asp Asn Pro Lys Trp Tyr Thr Asp Arg Gly Ile Pro Tyr Arg
 65 70 75 80
 Arg Gly Tyr Leu Leu Tyr Gly Pro Pro Gly Cys Gly Lys Ser Ser Phe
 85 90 95
 Ile Thr Ala Leu Ala Gly Glu Leu Glu His Ser Ile Cys Leu Leu Ser
 100 105 110
 Leu Thr Asp Ser Ser Leu Ser Asp Asp Arg Leu Asn His Leu Leu Ser
 115 120 125
 Val Ala Pro Gln Gln Ser Leu Val Leu Leu Glu Asp Val Asp Ala Ala
 130 135 140
 Phe Leu Ser Arg Asp Leu Ala Val Glu Asn Pro Val Lys Tyr Gln Gly
 145 150 155 160
 Leu Gly Arg Leu Thr Phe Ser Gly Leu Leu Asn Ala Leu Asp Gly Val
 165 170 175
 Ala Ser Thr Glu Ala Arg Ile Val Phe Met Thr Thr Asn His Val Asp
 180 185 190
 Arg Leu Asp Pro Ala Leu Ile Arg Pro Gly Arg Val Asp Leu Lys Glu
 195 200 205
 Tyr Val Gly Tyr Cys Ser His Trp Gln Leu Thr Gln Met Phe Gln Arg
 210 215 220
 Phe Tyr Pro Gly Gln Ala Pro Ser Leu Ala Glu Asn Phe Ala Glu His
 225 230 235 240
 Val Leu Arg Ala Thr Asn Gln Ile Ser Pro Ala Gln Val Gln Gly Tyr
 245 250 255
 Phe Met Leu Tyr Lys Asn Asp Pro Val Gly Ala Ile His Asn Ala Glu
 260 265 270
 Ser Leu Arg Arg
 275

542

<210> 536

<211> 72

<212> PRT

<213> Homo sapiens

<400> 536

Ile	Lys	Cys	Ser	Thr	Met	Cys	Asn	Asp	Cys	Lys	Phe	Ser	Lys	Ile	Leu
1				5					10					15	

Gln	Pro	Phe	His	Glu	Cys	Phe	Thr	Ile	Gln	His	Ser	Ile	Tyr	Tyr	Lys
			20					25					30		

Thr	Pro	Phe	Leu	Tyr	Pro	Tyr	Thr	Ser	Gly	Val	Ala	Val	Asn	Ile	Tyr
		35					40					45			

Tyr	Asp	Ile	Tyr	Phe	Asn	Gln	Asn	Val	Thr	His	Ile	Lys	Cys	Leu	Phe
	50					55					60				

Phe	Lys	Met	Asn	Val	Leu	Cys	Phe
65						70	

<210> 537

<211> 241

<212> PRT

<213> Homo sapiens

<400> 537

Ala	Tyr	Ile	Ser	Cys	Pro	Ser	Ser	Thr	Val	Asn	Lys	Trp	His	Ala	Cys
1				5					10					15	

Val	Leu	Trp	Pro	Phe	Tyr	Leu	Glu	Tyr	Ser	Leu	Leu	Ala	Glu	Phe	Thr
			20					25					30		

Leu	Val	Val	Lys	Gln	Lys	Leu	Pro	Gly	Val	Tyr	Val	Gln	Pro	Ser	Tyr
		35					40					45			

Arg	Ser	Ala	Leu	Met	Trp	Phe	Gly	Val	Ile	Phe	Ile	Arg	His	Gly	Leu
	50					55					60				

Tyr	Gln	Asp	Gly	Val	Phe	Lys	Phe	Thr	Val	Tyr	Ile	Pro	Asp	Asn	Tyr
65					70					75				80	

Pro	Asp	Gly	Asp	Cys	Pro	Arg	Leu	Val	Phe	Asp	Ile	Pro	Val	Phe	His
				85					90					95	

Pro	Leu	Val	Asp	Pro	Thr	Ser	Gly	Glu	Leu	Asp	Val	Lys	Arg	Ala	Phe
			100					105					110		

Ala	Lys	Trp	Arg	Arg	Asn	His	Asn	His	Ile	Trp	Gln	Val	Leu	Met	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

543

115	120	125
Ala Arg Arg Val Phe Tyr Lys Ile Asp Thr Ala Ser Pro Leu Asn Pro		
130	135	140
Glu Ala Ala Val Leu Tyr Glu Lys Asp Ile Gln Leu Phe Lys Ser Lys		
145	150	155
Val Val Asp Ser Val Lys Val Cys Thr Ala Arg Leu Phe Asp Gln Pro		
165	170	175
Lys Ile Glu Asp Pro Tyr Ala Ile Ser Phe Ser Pro Trp Asn Pro Ser		
180	185	190
Val His Asp Glu Ala Arg Glu Lys Met Leu Thr Gln Lys Lys Lys Pro		
195	200	205
Glu Glu Gln His Asn Lys Ser Val His Val Ala Gly Leu Ser Trp Val		
210	215	220
Lys Pro Gly Ser Val Gln Pro Phe Ser Lys Glu Glu Lys Thr Val Ala		
225	230	235
240		

Thr

<210> 538

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

544

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 538

Phe Tyr Met Ala Val Ile His Gly Val Glu Ala Val Arg Lys Glu Ser
1 5 10 15

Ser Thr Ser Xaa Leu Ser Xaa Val Ser Ser Asp Cys Xaa Glu Lys Trp
20 25 30

Asp Cys Leu Xaa His Gly Ile Cys Gly Leu Lys Ser Ser Pro Xaa
35 40 45

<210> 539

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 539

Xaa Val Phe Val Asn Lys Cys Ile Cys Ile Thr Gln Ser Cys Xaa Ile

545

1 5 10 15
 Gln Asn Tyr Lys Gln Lys Leu Cys Lys Thr Lys Leu Lys Ala Ala Cys
 20 25 30
 Leu Leu Phe Phe Val Pro Cys Pro Ile Thr Thr Ser Xaa Ser Lys Asn
 35 40 45
 Glu Met Leu Leu Leu Xaa Xaa Leu Met Phe Phe Arg Phe Glu Gly Phe
 50 55 60
 Thr Thr Ser Thr Pro Lys Thr Tyr Phe Ser
 65 70

<210> 540

<211> 195

<212> PRT

<213> Homo sapiens

<400> 540

Ser Thr Ala Gln Gly Asn Leu Leu Thr Val Phe Ile Gln Pro Arg Ala
 1 5 10 15
 Ser Met Ser Gly Gly Lys Tyr Val Asp Ser Glu Gly His Leu Tyr Thr
 20 25 30
 Val Pro Ile Arg Glu Gln Gly Asn Ile Tyr Lys Pro Asn Asn Lys Ala
 35 40 45
 Met Ala Asp Glu Leu Ser Glu Lys Gln Val Tyr Asp Ala His Thr Lys
 50 55 60
 Glu Ile Asp Leu Val Asn Arg Asp Pro Lys His Leu Asn Asp Asp Val
 65 70 75 80
 Val Lys Ile Asp Phe Glu Asp Val Ile Ala Glu Pro Glu Gly Thr His
 85 90 95
 Ser Phe Asp Gly Ile Trp Lys Ala Ser Phe Thr Thr Phe Thr Val Thr
 100 105 110
 Lys Tyr Trp Phe Tyr Arg Leu Leu Ser Ala Leu Phe Gly Ile Pro Met
 115 120 125
 Ala Leu Ile Trp Gly Ile Tyr Phe Ala Ile Leu Ser Phe Leu His Ile
 130 135 140
 Trp Ala Val Val Pro Cys Ile Lys Ser Phe Leu Ile Glu Ile Gln Cys
 145 150 155 160

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<210> 541
<211> 233
<212> PRT
<213> Homo sapiens
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<400> 541															
Leu	Pro	Leu	Glu	Val	Ala	Met	Ala	Gly	Leu	Arg	Arg	Glu	Tyr	Ala	Phe
1				5					10					15	
Lys	Ala	Ile	Asn	Gln	Gly	Gly	Leu	Thr	Ser	Val	Ala	Val	Arg	Gly	Lys
			20					25					30		
Asp	Cys	Ala	Val	Ile	Val	Thr	Gln	Lys	Lys	Val	Pro	Asp	Lys	Leu	Leu
		35					40					45			
Asp	Ser	Ser	Thr	Val	Thr	His	Leu	Phe	Lys	Ile	Thr	Glu	Asn	Ile	Gly
	50					55					60				
Cys	Val	Met	Thr	Gly	Met	Thr	Ala	Asp	Ser	Arg	Ser	Gln	Val	Gln	Arg
65					70					75					80
Ala	Arg	Tyr	Glu	Ala	Ala	Asn	Trp	Lys	Tyr	Lys	Tyr	Gly	Tyr	Glu	Ile
				85					90					95	
Pro	Val	Asp	Met	Leu	Cys	Lys	Arg	Ile	Ala	Asp	Ile	Ser	Gln	Val	Tyr
			100					105					110		
Thr	Gln	Asn	Ala	Glu	Met	Arg	Pro	Leu	Gly	Cys	Cys	Met	Ile	Leu	Ile
		115					120					125			
Gly	Ile	Asp	Glu	Glu	Gln	Gly	Pro	Gln	Val	Tyr	Lys	Cys	Asp	Pro	Ala
	130					135					140				
Gly	Tyr	Tyr	Cys	Gly	Phe	Lys	Ala	Thr	Ala	Ala	Gly	Val	Lys	Gln	Thr
145					150					155					160
Glu	Ser	Thr	Ser	Phe	Leu	Glu	Lys	Lys	Val	Lys	Lys	Lys	Phe	Asp	Trp
				165					170					175	

547

Thr Phe Glu Gln Thr Val Glu Thr Ala Ile Thr Cys Leu Ser Thr Val
 180 185 190

Leu Ser Ile Asp Phe Lys Pro Ser Glu Ile Glu Val Gly Val Val Thr
 195 200 205

Val Glu Asn Pro Lys Phe Arg Ile Leu Thr Glu Ala Glu Ile Asp Ala
 210 215 220

His Leu Val Ala Leu Ala Glu Arg Asp
 225 230

<210> 542

<211> 235

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 542

Thr Leu Gln Pro Pro Thr Gly Ile Pro Ser Thr Leu Pro Leu Cys Thr
 1 5 10 15

Ile Ser Thr Leu Trp Ala Pro Thr Lys Tyr Leu Ser Ala Ile Trp Ala
 20 25 30

Val Gly Gln Ile Ile Gln Asp Tyr Asp Ser Asp Lys Met Phe Pro Ala
 35 40 45

Leu Gly Phe Gly Ala Gln Leu Pro Pro Asp Trp Lys Val Ser His Glu
 50 55 60

Phe Ala Ile Asn Phe Asn Pro Thr Asn Pro Phe Cys Ser Gly Val Asp
 65 70 75 80

Gly Ile Ala Gln Ala Tyr Ser Ala Cys Leu Pro His Ile Arg Phe Tyr

85

95

Phe Phe Phe Phe Trp Glu Gly Pro Leu
65 70

<210> 544
 <211> 102
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 544
 Ala Trp Thr Glu Ser Ile His Ser Asp His Leu Leu Ser Leu Tyr Thr
 1 5 10 15
 Glu Asn Lys Thr Ser Ser Thr His Pro Ile Arg Phe Phe Cys Leu Thr
 20 25 30
 Phe Lys Cys Pro Cys Trp Pro Phe Thr Ala Val Pro Arg His Gln Ala
 35 40 45
 Ser Cys His Ile Ser His Ser Lys Gly Phe Xaa Thr Ile Ser Ser Cys
 50 55 60

550

His Phe Leu Lys Lys Thr Ile Pro Lys Leu Lys Leu Xaa Ile Ser Val
 65 70 75 80

Xaa Ser Cys Val Cys Gln Xaa Leu Gly Phe Xaa Trp Lys Val Pro Lys
 85 90 95

Thr Lys Ala Thr Pro Xaa
 100

<210> 545

<211> 115

<212> PRT

<213> Homo sapiens

<400> 545

Phe Arg Phe Leu Ser Asp Cys Gly Val Phe Ala Glu Gly His Ile Glu
 1 5 10 15

Leu Gln Val Glu Ser Gly Val Pro Leu Gly Phe Ser Thr Met Ala Glu
 20 25 30

Asp Met Glu Thr Lys Ile Lys Asn Tyr Lys Thr Ala Pro Phe Asp Ser
 35 40 45

Arg Phe Pro Asn Gln Asn Gln Thr Arg Asn Cys Trp Gln Asn Tyr Leu
 50 55 60

Asp Phe His Arg Cys Gln Lys Ala Met Thr Ala Lys Gly Gly Asp Ile
 65 70 75 80

Ser Val Cys Glu Trp Tyr Gln Arg Val Tyr Gln Ser Leu Cys Pro Thr
 85 90 95

Ser Trp Val Thr Asp Trp Asp Glu Gln Arg Ala Glu Gly Thr Phe Pro
 100 105 110

Gly Lys Ile
 115

<210> 546

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

551

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 546

Pro Ser Gly Cys Pro Ile Pro Xaa Pro Trp Xaa Ile Ser Val Val Ser
1 5 10 15

Ala Cys Xaa Met Gly Asp Pro His Pro Gln Cys Pro Ser Pro Ser Trp
20 25 30

Gly Pro Leu Thr Leu His Pro Leu Pro Phe Pro Pro His Leu Pro Gly
35 40 45

Glu Lys Leu Asp Met Gly Pro Gly Glu Gly Ser Trp Pro Glu Glu Asp
50 55 60

Pro Phe Pro Val Ala Leu Glu Gly Gly Gly Val Ala Gly Ala Pro Thr
65 70 75 80

His Ser Pro Ser Leu Gln Thr Pro Asn Pro Gln Ser Val Phe Glu Pro
85 90 95

Pro Arg Ser Pro His Ala Pro Ala His Ala Pro Ser Val Asn Pro Trp
100 105 110

<210> 547

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (118)
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 <220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 547
 Gly Leu Ser Glu Ser Ala Pro Ser Arg Leu Val Gly Ala Gln Pro Ser
 1 5 10 15

 Thr Gly Val Pro Leu Val Thr Gly Tyr Thr Thr Tyr Xaa Ala His His
 20 25 30

 Ser Ala Phe Ser Gln Met Val Xaa Ser Phe Tyr Tyr Gly Gly Lys Leu
 35 40 45

 Val Gly Gln Ala Thr Thr Thr Cys Pro Glu Gly Cys Arg Leu Ser Leu
 50 55 60

 Ser Gln Pro Gly Leu Pro Gly Thr Lys Leu Tyr Gly Pro Glu Gly Leu
 65 70 75 80

 Glu Leu Val Arg Phe Pro Pro Ala Asp Ala Ile Pro Ser Glu Arg Gln
 85 90 95

 Arg Gln Val Thr Arg Asn Cys Ser Gly Thr Trp Ser Ala Gly Cys Cys
 100 105 110

 Cys Thr Ala Ala Gly Xaa Ala Cys Ser Ser Ser Gly Cys Xaa Arg Ala
 115 120 125

 Ala Cys Ser Xaa Ala Ala Thr Val Gly Val Gln Arg Gln Ala Gln Gln
 130 135 140

553

Ala Gly Ala Asp Glu Val Val Gln Val Phe Asp Thr Ser Gln Phe Phe
 145 150 155 160

Arg Glu Leu Gln Gln Phe Tyr Asn Ser Gln Gly Arg Leu Pro Asp Gly
 165 170 175

Xaa Val Val Leu Cys Phe Gly Glu Glu Phe Arg Ile Trp Pro Pro Cys
 180 185 190

Ala Pro Asn Ser Phe Ser Cys Arg Leu Ser Ser Cys Met Ser Gly Asn
 195 200 205

Trp Gln Lys Arg Leu Gly Arg Ala Val Glu Pro Ala Leu
 210 215 220

<210> 548

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 548

Lys Gly Phe Phe Pro Gln Leu Arg Arg Glu Ala Asn Leu Val Ala Thr
 1 5 10 15

Cys Leu Pro Val Arg Ala Ser Leu Pro His Arg Leu Asn Met Leu Arg
 20 25 30

Gly Pro Gly Pro Gly Leu Leu Leu Leu Ala Val Xaa Cys Leu Gly Thr
 35 40 45

554

Ala Val Pro Ser Thr Gly Ala Ser Lys Ser Lys Arg Gln Ala Gln Gln
 50 55 60
 Met Val Gln Pro Gln Ser Pro Val Ala Val Ser Gln Ser Lys Pro Gly
 65 70 75 80
 Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn Gln Gln Trp Glu Arg
 85 90 95
 Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys Tyr Gly Gly Ser Arg
 100 105 110
 Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu Glu Thr Cys Phe Asp
 115 120 125
 Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp Thr Tyr Glu Arg Pro
 130 135 140
 Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile Gly Ala Gly Arg Gly
 145 150 155 160
 Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His Glu Gly Gly Gln Ser
 165 170 175
 Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His Glu Thr Gly Gly Tyr
 180 185 190
 Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys Gly Xaa Trp Thr Cys
 195 200 205
 Lys Pro Ile Xaa Glu Lys Cys Leu Ile Met Leu Leu Gly Leu Leu Cys
 210 215 220
 Gly Xaa Arg Thr Trp Glu Lys
 225 230

<210> 549

<211> 82

<212> PRT

<213> Homo sapiens

<400> 549

Glu Ala Gly Thr Pro Gly Ser Gln Thr Arg Ala Asp Pro Ile Val Lys
 1 5 10 15
 Tyr Phe Tyr Ile Phe Ser Phe Pro Gln Lys Arg Ser Leu Thr Tyr Cys
 20 25 30

555

Phe Ile Asp Ser Leu Ala Val Arg Gly Ser Phe Pro Glu Val Gly Arg
 35 40 45
 Arg Gly Ser Gly Val Ala Val Ser Cys Leu Pro Ser Gln Val Val Thr
 50 55 60
 Leu Val Met Asp Cys Leu Ser Pro Ser Phe His Pro Gly Glu Thr Val
 65 70 75 80
 Gln Ile

<210> 550
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 550
 Gly Leu Val Gly Glu Arg Thr Gln Glu Arg Gly Val Gln Glu Ser Arg
 1 5 10 15
 Leu Ser Glu Leu Cys Gly Val Cys Gly Trp Gln Gly Gln Pro Leu Gln
 20 25 30
 Pro Leu Lys Thr Leu Lys Ala Arg Asp Ser Trp Arg Arg Leu Gly Leu
 35 40 45
 Pro Gly Ser Ser Ser Lys Tyr Pro Gly Ala Ser Glu Leu Pro Gly Cys
 50 55 60
 Tyr Met Ala Gln Gly Thr Gln Val Gln Gly Arg Thr Gly Lys Thr Arg
 65 70 75 80
 Tyr Pro Met Cys Lys Val Lys Thr Leu Gly Ser Leu Leu Asn Asp Glu
 85 90 95
 Glu Phe Lys Thr Val Thr Ala Leu Arg His Pro Trp Gly Gln Arg Ser
 100 105 110
 Ala

<210> 551
 <211> 305
 <212> PRT
 <213> Homo sapiens

556

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 551

Pro	Ala	Ile	Ala	Met	Ala	Arg	Gly	Lys	Ala	Lys	Glu	Glu	Gly	Ser	Trp	1	5	10	15
Lys	Lys	Phe	Ile	Trp	Asn	Ser	Glu	Lys	Lys	Glu	Phe	Leu	Gly	Arg	Thr	20	25	30	
Gly	Gly	Ser	Trp	Phe	Lys	Ile	Leu	Leu	Phe	Tyr	Val	Ile	Phe	Tyr	Gly	35	40	45	
Cys	Leu	Ala	Gly	Ile	Phe	Ile	Gly	Thr	Ile	Gln	Val	Met	Leu	Leu	Thr	50	55	60	
Ile	Ser	Glu	Phe	Lys	Pro	Thr	Tyr	Gln	Asp	Arg	Val	Ala	Pro	Pro	Gly	65	70	75	80
Leu	Thr	Gln	Ile	Pro	Gln	Ile	Gln	Lys	Thr	Glu	Ile	Ser	Phe	Arg	Pro	85	90	95	
Asn	Asp	Pro	Lys	Ser	Tyr	Glu	Ala	Tyr	Val	Leu	Asn	Ile	Val	Arg	Phe	100	105	110	
Leu	Glu	Lys	Tyr	Lys	Asp	Ser	Ala	Gln	Arg	Asp	Asp	Met	Ile	Phe	Glu	115	120	125	
Asp	Cys	Gly	Asp	Val	Pro	Ser	Glu	Pro	Lys	Glu	Arg	Gly	Asp	Phe	Asn	130	135	140	
His	Glu	Arg	Gly	Glu	Arg	Lys	Val	Cys	Arg	Phe	Lys	Leu	Glu	Trp	Leu	145	150	155	160
Gly	Asn	Cys	Ser	Gly	Leu	Asn	Asp	Glu	Thr	Tyr	Gly	Tyr	Lys	Glu	Gly	165	170	175	
Lys	Pro	Cys	Ile	Ile	Ile	Lys	Leu	Asn	Arg	Val	Leu	Gly	Phe	Lys	Pro	180	185	190	
Lys	Pro	Pro	Lys	Asn	Glu	Ser	Leu	Glu	Thr	Tyr	Pro	Val	Met	Lys	Tyr	195	200	205	
Asn	Pro	Asn	Val	Leu	Pro	Val	Gln	Cys	Thr	Gly	Lys	Arg	Asp	Glu	Asp	210	215	220	
Lys	Asp	Lys	Val	Gly	Asn	Val	Glu	Tyr	Phe	Gly	Leu	Gly	Asn	Ser	Pro	225	230	235	240

557

Gly Phe Pro Leu Gln Tyr Tyr Pro Tyr Tyr Gly Lys Leu Leu Gln Pro
 245 250 255

Lys Tyr Leu Gln Pro Leu Leu Ala Val Gln Phe Thr Asn Leu Thr Met
 260 265 270

Asp Thr Glu Ile Arg Ile Glu Cys Lys Ala Tyr Gly Glu Asn Ile Gly
 275 280 285

Tyr Ser Glu Lys Asp Arg Phe Gln Gly Arg Phe Xaa Val Cys Gly Ser
 290 295 300

Phe
 305

<210> 552

<211> 106

<212> PRT

<213> Homo sapiens

<400> 552

Ala Pro Arg Gly Cys Ser Met Pro His Arg Lys Lys Lys Pro Phe Ile
 1 5 10 15

Glu Lys Lys Lys Ala Val Ser Phe His Leu Val His Arg Ser Gln Arg
 20 25 30

Asp Pro Leu Ala Ala Asp Glu Ser Ala Pro Gln Arg Val Leu Leu Pro
 35 40 45

Thr Gln Lys Ile Asp Asn Glu Glu Arg Arg Ala Glu Gln Arg Lys Tyr
 50 55 60

Gly Val Phe Phe Asp Asp Asp Tyr Asp Tyr Leu Gln His Leu Lys Glu
 65 70 75 80

Pro Ser Gly Pro Ser Glu Leu Ile Pro Ser Ser Thr Phe Ser Ala His
 85 90 95

Asn Arg Arg Glu Glu Lys Glu Glu Thr Leu
 100 105

<210> 553

<211> 235

<212> PRT

<213> Homo sapiens

558

<400> 553

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His Thr Leu Ser Arg Trp Thr Lys His Ser Ile Pro Arg Trp Asn Asp
 1             5             10             15

Ala Arg Thr Asp Asp Thr Trp His Ser Glu Leu Asp Met Arg Lys Ile
          20             25             30

Gly Gln Ala Arg Asn Thr Leu Met Asp Met Arg Leu Ser Gln Val Ser
          35             40             45

Asp Ser Val Ser Gly Gln Thr Val Val Asp Pro Lys Gly Tyr Leu Thr
          50             55             60

Asp Leu Asn Ser Met Ile Pro Thr His Gly Gly Asp Ile Asn Asp Ile
 65             70             75             80

Lys Lys Ala Arg Leu Leu Leu Lys Ser Val Arg Glu Thr Asn Pro His
          85             90             95

His Pro Pro Ala Trp Ile Ala Ser Ala Arg Leu Glu Glu Val Thr Gly
          100            105            110

Lys Leu Gln Val Ala Arg Asn Leu Ile Met Lys Gly Thr Glu Met Cys
          115            120            125

Pro Lys Ser Glu Asp Val Trp Leu Glu Ala Ala Arg Leu Gln Pro Gly
          130            135            140

Asp Thr Ala Lys Ala Val Val Ala Gln Ala Val Arg His Leu Pro Gln
          145            150            155            160

Ser Val Arg Ile Tyr Ile Arg Ala Ala Glu Leu Glu Thr Asp Ile Arg
          165            170            175

Ala Lys Lys Arg Val Leu Arg Lys Ala Leu Glu His Val Pro Asn Ser
          180            185            190

Val Arg Leu Trp Lys Ala Ala Val Glu Leu Glu Glu Pro Glu Asp Ala
          195            200            205

Arg Ile Met Leu Ser Arg Ala Val Glu Cys Cys Pro Thr Ser Val Glu
          210            215            220

Leu Trp Leu Cys Ser Gly Lys Ala Gly Asp Leu
          225            230            235

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<210> 554

<211> 61

<212> PRT

559

<213> Homo sapiens

<400> 554

Leu Trp Phe Cys His Asn Ile Arg Ile Tyr Lys His Phe Lys Ser Ile
 1 5 10 15

Leu Phe Phe Cys Phe His Phe Arg Asn Ile His Val Leu Asn Lys Ser
 20 25 30

Cys Val Leu Ile Ser Leu Leu Cys Asn Asn Leu Val Cys Leu Thr Phe
 35 40 45

Leu Thr Phe Ile Ser Asn Ile Cys Phe Ile Ile Glu Gln
 50 55 60

<210> 555

<211> 684

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (683)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 555

Arg Gly Lys Gly Phe Lys Glu Phe Phe Leu Gly Val Cys Gln Thr Phe
 1 5 10 15

Ile Pro Cys Leu Cys Ala Glu Gly Ile Gln Leu Gln Phe Phe Cys Ser
 20 25 30

Gly Ser Gly Ser Ser Pro Leu Leu Lys Asp Leu Glu Ser Met Lys Thr
 35 40 45

Gly Leu Phe Phe Leu Cys Leu Leu Gly Thr Ala Ala Ala Ile Pro Thr
 50 55 60

Asn Ala Arg Leu Leu Ser Asp His Ser Lys Pro Thr Ala Glu Thr Val
 65 70 75 80

Ala Pro Asp Asn Thr Ala Ile Pro Ser Leu Arg Ala Glu Ala Glu Glu
 85 90 95

560

Asn	Glu	Lys	Glu	Thr	Ala	Val	Ser	Thr	Glu	Asp	Asp	Ser	His	His	Lys	100	105	110	
Ala	Glu	Lys	Ser	Ser	Val	Leu	Lys	Ser	Lys	Glu	Glu	Ser	His	Glu	Gln	115	120	125	
Ser	Ala	Glu	Gln	Gly	Lys	Ser	Ser	Ser	Gln	Glu	Leu	Gly	Leu	Lys	Asp	130	135	140	
Gln	Glu	Asp	Ser	Asp	Gly	Xaa	Leu	Ser	Val	Asn	Leu	Glu	Tyr	Ala	Pro	145	150	155	160
Thr	Glu	Gly	Thr	Leu	Asp	Ile	Lys	Glu	Asp	Met	Ser	Glu	Pro	Gln	Glu	165	170	175	
Lys	Lys	Leu	Ser	Glu	Asn	Thr	Asp	Phe	Leu	Ala	Pro	Gly	Val	Ser	Ser	180	185	190	
Phe	Thr	Asp	Ser	Asn	Gln	Gln	Glu	Ser	Ile	Thr	Lys	Arg	Glu	Glu	Asn	195	200	205	
Gln	Glu	Gln	Pro	Arg	Asn	Tyr	Ser	His	His	Gln	Leu	Asn	Arg	Ser	Ser	210	215	220	
Lys	His	Ser	Gln	Gly	Leu	Arg	Asp	Gln	Gly	Asn	Gln	Glu	Gln	Asp	Pro	225	230	235	240
Asn	Ile	Ser	Asn	Gly	Glu	Glu	Glu	Glu	Glu	Lys	Glu	Pro	Gly	Glu	Val	245	250	255	
Gly	Thr	His	Asn	Asp	Asn	Gln	Glu	Arg	Lys	Thr	Glu	Leu	Pro	Arg	Glu	260	265	270	
His	Ala	Asn	Ser	Lys	Gln	Glu	Glu	Asp	Asn	Thr	Gln	Ser	Asp	Asp	Ile	275	280	285	
Leu	Glu	Glu	Ser	Asp	Gln	Pro	Thr	Gln	Val	Ser	Lys	Met	Gln	Glu	Asp	290	295	300	
Glu	Phe	Asp	Gln	Gly	Asn	Gln	Glu	Gln	Glu	Asp	Asn	Ser	Asn	Ala	Glu	305	310	315	320
Met	Glu	Glu	Glu	Asn	Ala	Ser	Asn	Val	Asn	Lys	His	Ile	Gln	Glu	Thr	325	330	335	
Glu	Trp	Gln	Ser	Gln	Glu	Gly	Lys	Thr	Gly	Leu	Glu	Ala	Ile	Ser	Asn	340	345	350	
His	Lys	Glu	Thr	Glu	Glu	Lys	Thr	Val	Ser	Glu	Ala	Leu	Leu	Met	Glu	355	360	365	

561

Pro Thr Asp Asp Gly Asn Thr Thr Pro Arg Asn His Gly Val Asp Asp
 370 375 380

Asp Gly Asp Asp Asp Gly Asp Asp Gly Gly Thr Asp Gly Pro Arg His
 385 390 395 400

Ser Ala Ser Asp Asp Tyr Phe Ile Pro Ser Gln Ala Phe Leu Glu Ala
 405 410 415

Glu Arg Ala Gln Ser Ile Ala Tyr His Leu Lys Ile Glu Glu Gln Arg
 420 425 430

Glu Lys Val His Glu Asn Glu Asn Ile Gly Thr Thr Glu Pro Gly Glu
 435 440 445

His Gln Glu Ala Lys Lys Ala Glu Asn Ser Ser Asn Glu Glu Glu Thr
 450 455 460

Ser Ser Glu Gly Asn Met Arg Val His Ala Val Asp Ser Cys Met Ser
 465 470 475 480

Phe Gln Cys Lys Arg Gly His Ile Cys Lys Ala Asp Gln Gln Gly Lys
 485 490 495

Pro His Cys Val Cys Gln Asp Pro Val Thr Cys Pro Pro Thr Lys Pro
 500 505 510

Leu Asp Gln Val Cys Gly Thr Asp Asn Gln Thr Tyr Ala Ser Ser Cys
 515 520 525

His Leu Phe Ala Thr Lys Cys Arg Leu Glu Gly Thr Lys Lys Gly His
 530 535 540

Gln Leu Gln Leu Asp Tyr Phe Gly Ala Cys Lys Ser Ile Pro Thr Cys
 545 550 555 560

Thr Asp Phe Glu Val Ile Gln Phe Pro Leu Arg Met Arg Asp Trp Leu
 565 570 575

Lys Asn Ile Leu Met Gln Leu Tyr Glu Ala Asn Ser Glu His Ala Gly
 580 585 590

Tyr Leu Asn Glu Lys Gln Arg Asn Lys Val Lys Lys Ile Tyr Leu Asp
 595 600 605

Glu Lys Arg Leu Leu Ala Gly Asp His Pro Ile Asp Leu Leu Leu Arg
 610 615 620

Asp Phe Lys Lys Asn Tyr His Met Tyr Val Tyr Pro Val His Trp Gln
 625 630 635 640

562

Phe Ser Glu Leu Asp Gln His Pro Met Asp Arg Val Leu Thr His Ser
 645 650 655

Glu Leu Ala Pro Leu Arg Ala Ser Leu Val Pro Met Glu His Cys Ile
 660 665 670

Thr Arg Phe Phe Glu Glu Cys Asp Pro Asn Xaa Gly
 675 680

<210> 556

<211> 61

<212> PRT

<213> Homo sapiens

<400> 556

Leu Val Leu Ile Leu Leu Ala Gly Ile Asn Asn Pro Lys Ser Val Gln
 1 5 10 15

Thr Leu Gly Ala Lys Cys Ser Thr Gln Phe Gly Ile Leu Cys Leu Lys
 20 25 30

Ile Tyr Phe Ile Val Thr Ala Pro Cys Ile Tyr Ser Trp Pro Arg Thr
 35 40 45

Glu Leu Leu Gln Val Thr Trp Asn Phe His Ser Lys Ser
 50 55 60

<210> 557

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 557

Glu	Ile	Ala	Asn	Met	Pro	Asn	Ser	Glu	Pro	Ala	Ser	Leu	Leu	Glu	Leu
1				5					10					15	

Phe	Asn	Ser	Ile	Ala	Thr	Gln	Gly	Glu	Leu	Val	Arg	Ser	Leu	Lys	Ala
			20					25					30		

Gly	Asn	Ala	Ser	Lys	Asp	Glu	Ile	Asp	Ser	Ala	Val	Lys	Met	Leu	Val
		35					40					45			

Ser	Leu	Lys	Met	Ser	Tyr	Lys	Ala	Ala	Ala	Gly	Glu	Asp	Tyr	Lys	Ala
	50					55					60				

Asp	Cys	Pro	Pro	Gly	Asn	Pro	Ala	Pro	Thr	Ser	Asn	His	Gly	Pro	Asp
65					70					75				80	

Ala	Thr	Glu	Ala	Glu	Glu	Asp	Phe	Val	Asp	Pro	Trp	Thr	Val	Gln	Thr
				85					90					95	

Ser	Ser	Ala	Lys	Gly	Ile	Asp	Tyr	Asp	Lys	Leu	Ile	Val	Arg	Phe	Gly
			100					105					110		

Ser	Ser	Xaa	Asn	Xaa	Gln	Glu	Leu	Leu	Xaa	Asp	Xaa	Glu	Ser	Thr	Ala
		115					120					125			

Lys	Xaa	Thr	His	Ser	Gly	Gln	Gly	Xaa	Phe	Phe	Lys	Arg	Xaa		
	130					135						140			

<210> 558

564

<211> 475

<212> PRT

<213> Homo sapiens

<400> 558

Glu Ile Ala Asn Met Pro Asn Ser Glu Pro Ala Ser Leu Leu Glu Leu
 1 5 10 15

Phe Asn Ser Ile Ala Thr Gln Gly Glu Leu Val Arg Ser Leu Lys Ala
 20 25 30

Gly Asn Ala Ser Lys Asp Glu Ile Asp Ser Ala Val Lys Met Leu Val
 35 40 45

Ser Leu Lys Met Ser Tyr Lys Ala Ala Ala Gly Glu Asp Tyr Lys Ala
 50 55 60

Asp Cys Pro Pro Gly Asn Pro Ala Pro Thr Ser Asn His Gly Pro Asp
 65 70 75 80

Ala Thr Glu Ala Glu Glu Asp Phe Val Asp Pro Trp Thr Val Gln Thr
 85 90 95

Ser Ser Ala Lys Gly Ile Asp Tyr Asp Lys Leu Ile Val Arg Phe Gly
 100 105 110

Ser Ser Lys Ile Asp Lys Glu Leu Ile Asn Arg Ile Glu Arg Ala Thr
 115 120 125

Gly Gln Arg Pro His His Phe Leu Arg Arg Gly Ile Phe Phe Ser His
 130 135 140

Arg Asp Met Asn Gln Val Leu Asp Ala Tyr Glu Asn Lys Lys Pro Phe
 145 150 155 160

Tyr Leu Tyr Thr Gly Arg Gly Pro Ser Ser Glu Ala Met His Val Gly
 165 170 175

His Leu Ile Pro Phe Ile Phe Thr Lys Trp Leu Gln Asp Val Phe Asn
 180 185 190

Val Pro Leu Val Ile Gln Met Thr Asp Asp Glu Lys Tyr Leu Trp Lys
 195 200 205

Asp Leu Thr Leu Asp Gln Ala Tyr Ser Tyr Ala Val Glu Asn Ala Lys
 210 215 220

Asp Ile Ile Ala Cys Gly Phe Asp Ile Asn Lys Thr Phe Ile Phe Ser
 225 230 235 240

Asp Leu Asp Tyr Met Gly Met Ser Ser Gly Phe Tyr Lys Asn Val Val

			245				250				255				
Lys	Ile	Gln	Lys	His	Val	Thr	Phe	Asn	Gln	Val	Lys	Gly	Ile	Phe	Gly
			260				265				270				
Phe	Thr	Asp	Ser	Asp	Cys	Ile	Gly	Lys	Ile	Ser	Phe	Pro	Ala	Ile	Gln
			275				280				285				
Ala	Ala	Pro	Ser	Phe	Ser	Asn	Ser	Phe	Pro	Gln	Ile	Phe	Arg	Asp	Arg
			290				295				300				
Thr	Asp	Ile	Gln	Cys	Leu	Ile	Pro	Cys	Ala	Ile	Asp	Gln	Asp	Pro	Tyr
305					310				315				320		
Phe	Arg	Met	Thr	Arg	Asp	Val	Ala	Pro	Arg	Ile	Gly	Tyr	Pro	Lys	Pro
			325				330				335				
Ala	Leu	Leu	His	Ser	Thr	Phe	Phe	Pro	Ala	Leu	Gln	Gly	Ala	Gln	Thr
			340				345				350				
Lys	Met	Ser	Ala	Ser	Asp	Pro	Asn	Ser	Ser	Ile	Phe	Leu	Thr	Asp	Thr
			355				360				365				
Ala	Lys	Gln	Ile	Lys	Thr	Lys	Val	Asn	Lys	His	Ala	Phe	Ser	Gly	Gly
			370				375				380				
Arg	Asp	Thr	Ile	Glu	Glu	His	Arg	Gln	Phe	Gly	Gly	Asn	Cys	Asp	Val
385					390				395				400		
Asp	Val	Ser	Phe	Met	Tyr	Leu	Thr	Phe	Phe	Leu	Glu	Asp	Asp	Asp	Lys
			405				410				415				
Leu	Glu	Gln	Ile	Arg	Lys	Asp	Tyr	Thr	Ser	Gly	Ala	Met	Leu	Thr	Gly
			420				425				430				
Glu	Leu	Lys	Lys	Ala	Leu	Ile	Glu	Val	Leu	Gln	Pro	Leu	Ile	Ala	Glu
			435				440				445				
His	Gln	Ala	Arg	Arg	Lys	Glu	Val	Thr	Asp	Glu	Ile	Val	Lys	Glu	Phe
			450				455				460				
Met	Thr	Pro	Arg	Lys	Leu	Ser	Phe	Asp	Phe	Gln					
465					470				475						

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<210> 559
<211> 265
<212> PRT
<213> Homo sapiens
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566

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 559

Trp	Ile	Pro	Xaa	Leu	Gln	Ile	Arg	Thr	Gly	Glu	Ser	Tyr	Cys	Cys	Gly
1				5					10					15	
Leu	Arg	Gly	Arg	Arg	Pro	Cys	Arg	Ser	Thr	Ser	Thr	Ser	Ala	Gly	Lys
			20					25					30		
Leu	Arg	Arg	Arg	Thr	Ala	Pro	Arg	Gly	Ser	Arg	Glu	Ala	His	Gly	Val
		35					40					45			
Gln	Ala	Leu	Arg	Gly	Gly	Trp	Pro	Gly	Gly	Tyr	Val	Ser	Phe	Gly	Pro
	50					55					60				
His	Ala	Gly	Lys	Leu	Val	Ala	Ile	Val	Asp	Val	Ile	Asp	Gln	Asn	Arg
65					70					75					80
Ala	Leu	Val	Asp	Gly	Pro	Cys	Thr	Gln	Val	Arg	Arg	Gln	Ala	Met	Pro
			85						90					95	
Phe	Lys	Cys	Met	Gln	Leu	Thr	Asp	Phe	Ile	Leu	Lys	Phe	Pro	His	Ser
		100					105						110		
Ala	His	Gln	Lys	Tyr	Val	Arg	Gln	Ala	Trp	Gln	Lys	Ala	Asp	Ile	Asn
	115						120					125			
Thr	Lys	Trp	Ala	Ala	Thr	Arg	Trp	Ala	Lys	Lys	Ile	Glu	Ala	Arg	Glu
	130					135					140				
Arg	Lys	Ala	Lys	Met	Thr	Asp	Phe	Asp	Arg	Phe	Lys	Val	Met	Lys	Ala
145				150					155					160	
Lys	Lys	Met	Arg	Asn	Arg	Ile	Ile	Lys	Asn	Glu	Val	Lys	Lys	Leu	Gln
			165					170						175	
Lys	Ala	Ala	Leu	Leu	Lys	Ala	Ser	Pro	Lys	Lys	Ala	Pro	Gly	Thr	Lys
		180						185					190		
Gly	Thr	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala
	195					200						205			
Ala	Lys	Val	Pro	Ala	Lys	Lys	Ile	Thr	Ala	Ala	Ser	Lys	Lys	Ala	Pro
	210					215					220				
Ala	Gln	Lys	Val	Pro	Ala	Gln	Lys	Ala	Thr	Gly	Gln	Lys	Ala	Ala	Pro
225				230						235					240

567

Ala Pro Lys Ala Gln Lys Gly Gln Lys Ala Pro Ala Gln Lys Ala Pro
245 250 255

Ala Pro Lys Ala Ser Gly Lys Lys Ala
260 265

<210> 560
<211> 41
<212> PRT
<213> Homo sapiens

<400> 560
Pro Asn Leu Ile Pro Val Ser Arg Asp Trp Glu Gly Arg Ala Ala Ala
1 5 10 15

Gly Gly Gln Ala Gly Ser Ala Cys Glu Gly Glu Glu Leu Trp Thr Ser
20 25 30

Ala Ser Leu Pro Arg Glu Arg Val Arg
35 40

<210> 561
<211> 48
<212> PRT
<213> Homo sapiens

<400> 561
Lys His Lys Asn Lys Asn Ile Ser Asp Asn Asn Ile Glu Lys Thr Lys
1 5 10 15

Ile His Gly Leu Glu Phe His Pro Arg Asp Cys Ile Leu Lys Asp Thr
20 25 30

Gly Phe Ser Ser Phe Phe Phe Phe Phe Ser Phe His Val Ser Val Leu
35 40 45

<210> 562
<211> 168
<212> PRT
<213> Homo sapiens

<400> 562

568

Glu Pro Trp Pro Ser Pro Lys Lys Ala Arg Ser Gly Arg Trp Leu Arg
 1 5 10 15
 Asn Gly Phe Lys Arg Lys Met Glu Glu Pro Glu Glu Pro Ala Asp Ser
 20 25 30
 Gly Gln Ser Leu Val Pro Val Tyr Ile Tyr Ser Pro Glu Tyr Val Ser
 35 40 45
 Met Cys Asp Ser Leu Ala Lys Ile Pro Lys Arg Ala Ser Met Val His
 50 55 60
 Ser Leu Ile Glu Ala Tyr Ala Leu His Lys Gln Met Arg Ile Val Lys
 65 70 75 80
 Pro Lys Val Ala Ser Met Glu Glu Met Ala Thr Phe His Thr Asp Ala
 85 90 95
 Tyr Leu Gln His Leu Gln Lys Val Ser Gln Glu Gly Asp Asp Asp His
 100 105 110
 Pro Asp Ser Ile Glu Tyr Gly Leu Gly Tyr Asp Cys Pro Ala Thr Glu
 115 120 125
 Gly Ile Phe Asp Tyr Ala Ala Ala Ile Gly Gly Ala Thr Ile Thr Ala
 130 135 140
 Ala Gln Cys Leu Ile Asp Gly Met Cys Lys Val Ala Ile Asn Trp Ser
 145 150 155 160
 Gly Arg Trp His His Ala Lys Lys
 165

<210> 563

<211> 352

<212> PRT

<213> Homo sapiens

<400> 563

Gly Ser Phe Gln Arg Cys Lys Lys Gly Gln Arg Leu Phe Pro Met Ala
 1 5 10 15
 Glu Gly Asn His Arg Lys Lys Pro Leu Lys Val Leu Glu Ser Leu Gly
 20 25 30
 Lys Asp Phe Leu Thr Gly Val Leu Asp Asn Leu Val Glu Gln Asn Val
 35 40 45
 Leu Asn Trp Lys Glu Glu Glu Lys Lys Lys Tyr Tyr Asp Ala Lys Thr

569

50		55		60	
Glu Asp Lys Val Arg Val Met Ala Asp Ser Met Gln Glu Lys Gln Arg					
65		70		75	80
Met Ala Gly Gln Met Leu Leu Gln Thr Phe Phe Asn Ile Asp Gln Ile					
	85		90		95
Ser Pro Asn Lys Lys Ala His Pro Asn Met Glu Ala Gly Pro Pro Glu					
	100		105		110
Ser Gly Glu Ser Thr Asp Ala Leu Lys Leu Cys Pro His Glu Glu Phe					
	115		120		125
Leu Arg Leu Cys Lys Glu Arg Ala Glu Glu Ile Tyr Pro Ile Lys Glu					
	130		135		140
Arg Asn Asn Arg Thr Arg Leu Ala Leu Ile Ile Cys Asn Thr Glu Phe					
145		150		155	160
Asp His Leu Pro Pro Arg Asn Gly Ala Asp Phe Asp Ile Thr Gly Met					
	165		170		175
Lys Glu Leu Leu Glu Gly Leu Asp Tyr Ser Val Asp Val Glu Glu Asn					
	180		185		190
Leu Thr Ala Arg Asp Met Glu Ser Ala Leu Arg Ala Phe Ala Thr Arg					
	195		200		205
Pro Glu His Lys Ser Ser Asp Ser Thr Phe Leu Val Leu Met Ser His					
	210		215		220
Gly Ile Leu Glu Gly Ile Cys Gly Thr Val His Asp Glu Lys Lys Pro					
225		230		235	240
Asp Val Leu Leu Tyr Asp Thr Ile Phe Gln Ile Phe Asn Asn Arg Asn					
	245		250		255
Cys Leu Ser Leu Lys Asp Lys Pro Lys Val Ile Ile Val Gln Ala Cys					
	260		265		270
Arg Gly Ala Asn Arg Gly Glu Leu Trp Val Arg Asp Ser Pro Ala Ser					
	275		280		285
Leu Glu Val Ala Ser Ser Gln Ser Ser Glu Asn Leu Glu Glu Asp Ala					
	290		295		300
Val Tyr Lys Thr His Val Glu Lys Asp Phe Ile Ala Phe Cys Ser Ser					
305		310		315	320
Thr Pro His Asn Val Pro Gly Glu Thr Ala Gln Trp Ala Leu Ser Ser					

570

				325						330						335			
Ser	His	Asn	Ser	Ser	His	Ala	Ser	Arg	Asn	Ile	Leu	Gly	Ala	Ala	Thr				
			340					345					350						

<210> 564

<211> 318

<212> PRT

<213> Homo sapiens

<400> 564

Arg	Phe	Tyr	Arg	Ser	Arg	Lys	Lys	His	Leu	Ile	Thr	Thr	Gln	Thr	Glu				
1				5					10						15				

His	Lys	Cys	Val	Leu	Asp	Ser	Cys	Arg	Ser	Leu	Glu	Ala	Glu	Gly	Phe				
			20					25						30					

Gln	Val	Thr	Tyr	Leu	Pro	Val	Gln	Lys	Ser	Gly	Ile	Ile	Asp	Leu	Lys				
		35					40						45						

Glu	Leu	Glu	Ala	Ala	Ile	Gln	Pro	Asp	Thr	Ser	Leu	Val	Ser	Val	Met				
	50					55					60								

Thr	Val	Asn	Asn	Glu	Ile	Gly	Val	Lys	Gln	Pro	Ile	Ala	Glu	Ile	Gly				
65					70					75					80				

Arg	Ile	Cys	Ser	Ser	Arg	Lys	Val	Tyr	Phe	His	Thr	Asp	Ala	Ala	Gln				
				85					90						95				

Ala	Val	Gly	Lys	Ile	Pro	Leu	Asp	Val	Asn	Asp	Met	Lys	Ile	Asp	Leu				
			100					105						110					

Met	Ser	Ile	Ser	Gly	His	Lys	Ile	Tyr	Gly	Pro	Lys	Gly	Val	Gly	Ala				
		115					120					125							

Ile	Tyr	Ile	Arg	Arg	Arg	Pro	Arg	Val	Arg	Val	Glu	Ala	Leu	Gln	Ser				
	130					135					140								

Gly	Gly	Gly	Gln	Glu	Arg	Gly	Met	Arg	Ser	Gly	Thr	Val	Pro	Thr	Pro				
145					150					155					160				

Leu	Val	Val	Gly	Leu	Gly	Ala	Ala	Cys	Glu	Val	Ala	Gln	Gln	Glu	Met				
			165						170					175					

Glu	Tyr	Asp	His	Lys	Arg	Ile	Ser	Lys	Leu	Ser	Glu	Arg	Leu	Ile	Gln				
			180					185						190					

571

Asn Ile Met Lys Ser Leu Pro Asp Val Val Met Asn Gly Asp Pro Lys
 195 200 205

His His Tyr Pro Gly Cys Ile Asn Leu Ser Phe Ala Tyr Val Glu Gly
 210 215 220

Glu Ser Leu Leu Met Ala Leu Lys Asp Val Ala Leu Ser Ser Gly Ser
 225 230 235 240

Ala Cys Thr Ser Ala Ser Leu Glu Pro Ser Tyr Val Leu Arg Ala Ile
 245 250 255

Gly Thr Asp Glu Asp Leu Ala His Ser Ser Ile Arg Phe Gly Ile Gly
 260 265 270

Arg Phe Thr Thr Glu Glu Glu Val Asp Tyr Thr Val Glu Lys Cys Ile
 275 280 285

Gln His Val Lys Arg Leu Arg Glu Met Ser Pro Leu Trp Glu Met Val
 290 295 300

Gln Asp Gly Ile Asp Leu Lys Ser Ile Lys Trp Thr Gln His
 305 310 315

<210> 565

<211> 418

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (367)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (383)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 565

Glu Ser Thr Glu Ser Leu Thr Xaa Glu Gly Thr Asp Met Asn Glu Gly
 1 5 10 15

572

Gln Leu Leu Gly Asp Phe Glu Ile Glu Ser Lys Gln Leu Glu Ala Glu
 20 25 30

Ser Trp Ser Arg Ile Ile Asp Ser Lys Phe Leu Lys Gln Gln Lys Lys
 35 40 45

Asp Val Val Lys Arg Gln Glu Val Ile Tyr Glu Leu Met Gln Thr Glu
 50 55 60

Phe His His Val Arg Thr Leu Lys Ile Met Ser Gly Val Tyr Ser Gln
 65 70 75 80

Gly Met Met Ala Asp Leu Leu Phe Glu Gln Gln Met Val Glu Lys Leu
 85 90 95

Phe Pro Cys Leu Asp Glu Leu Ile Ser Ile His Ser Gln Phe Phe Gln
 100 105 110

Arg Ile Leu Glu Arg Lys Lys Glu Ser Leu Val Asp Lys Ser Glu Lys
 115 120 125

Asn Phe Leu Ile Lys Arg Ile Gly Asp Val Leu Val Asn Gln Phe Ser
 130 135 140

Gly Glu Asn Ala Glu Arg Leu Lys Lys Thr Tyr Gly Lys Phe Cys Gly
 145 150 155 160

Gln His Asn Gln Ser Val Asn Tyr Phe Lys Asp Leu Tyr Ala Lys Asp
 165 170 175

Lys Arg Phe Gln Ala Phe Val Lys Lys Lys Met Ser Ser Ser Val Val
 180 185 190

Arg Arg Leu Gly Ile Pro Glu Cys Ile Leu Leu Val Thr Gln Arg Ile
 195 200 205

Thr Lys Tyr Pro Val Leu Phe Gln Arg Ile Leu Gln Cys Thr Lys Asp
 210 215 220

Asn Glu Val Glu Gln Glu Asp Leu Ala Gln Ser Leu Ser Leu Val Lys
 225 230 235 240

Asp Val Ile Gly Ala Val Asp Ser Lys Val Ala Ser Tyr Glu Lys Lys
 245 250 255

Val Arg Leu Asn Glu Ile Tyr Thr Lys Thr Asp Ser Lys Ser Ile Met
 260 265 270

Arg Met Lys Ser Gly Gln Met Phe Ala Lys Glu Asp Leu Lys Arg Lys
 275 280 285

573

Lys Leu Val Arg Asp Gly Ser Val Phe Leu Lys Asn Ala Ala Gly Arg
 290 295 300
 Leu Lys Glu Val Gln Ala Val Leu Leu Thr Asp Ile Leu Val Phe Leu
 305 310 315 320
 Gln Glu Lys Asp Gln Lys Tyr Ile Phe Ala Ser Leu Asp Gln Lys Ser
 325 330 335
 Thr Val Ile Ser Leu Lys Lys Leu Ile Val Arg Glu Val Ala His Glu
 340 345 350
 Glu Lys Gly Leu Phe Leu Ile Ser Met Gly Met Thr Asp Pro Xaa Met
 355 360 365
 Val Glu Val His Ala Ser Ser Lys Glu Glu Arg Asn Ser Trp Xaa Gln
 370 375 380
 Ile Ile Gln Asp Thr Ile Asn Thr Arg Thr Glu Met Lys Met Lys Glu
 385 390 395 400
 Phe Leu Val Arg Met Arg Lys Lys Arg Lys Cys Trp Thr Pro Glu Pro
 405 410 415
 Glu Asn

<210> 566

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 566

Pro Gln Cys Leu Gln Lys His Phe Ala Lys Ile Arg Asp Arg Ser Thr
 1 5 10 15
 Ser Gly Gly Lys Met Lys Val Asn Gly Ala Pro Arg Glu Asp Ala Arg
 20 25 30
 Pro Val Pro Gln Gly Ser Cys Gln Ser Glu Leu His Arg Ala Leu Glu
 35 40 45
 Arg Leu Ala Xaa Ser Gln Ser Arg Thr His Glu Asp Leu Tyr Ile Ile
 50 55 60

574

Pro Ile Pro Asn Cys Asp Arg Asn Gly Asn Phe His Pro Lys Gln Cys
 65 70 75 80

His Pro Ala Leu Asp Gly Gln Arg Gly Lys Cys Trp Cys Val Asp Arg
 85 90 95

Lys Thr Gly Val Lys Leu Pro Gly Gly Leu Glu Pro Lys Gly Glu Leu
 100 105 110

Asp Cys His Gln Leu Ala Asp Ser Phe Arg Glu
 115 120

<210> 567

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (266)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 567

Gly Ser Leu Leu Met Lys Ile Glu Leu Ser Met Gln Pro Trp Asn Pro
 1 5 10 15

Gly Tyr Ser Ser Glu Gly Ala Thr Ala Gln Glu Thr Tyr Thr Cys Pro
 20 25 30

Lys Met Ile Glu Met Glu Gln Ala Glu Ala Gln Leu Ala Glu Leu Asp
 35 40 45

Leu Leu Ala Ser Met Phe Pro Gly Glu Asn Glu Leu Ile Val Asn Asp
 50 55 60

Gln Leu Ala Val Ala Glu Leu Lys Asp Cys Ile Glu Lys Lys Thr Met
 65 70 75 80

575

Glu Gly Arg Ser Ser Lys Val Tyr Phe Thr Ile Asn Met Asn Leu Asp
 85 90 95
 Val Ser Asp Glu Lys Met Ala Met Phe Ser Leu Ala Cys Ile Leu Pro
 100 105 110
 Phe Lys Tyr Pro Ala Val Leu Pro Glu Ile Thr Val Arg Ser Val Leu
 115 120 125
 Leu Ser Arg Ser Gln Gln Thr Gln Leu Asn Thr Asp Leu Thr Ala Phe
 130 135 140
 Leu Gln Lys His Cys His Gly Asp Val Cys Ile Leu Asn Ala Thr Glu
 145 150 155 160
 Trp Xaa Arg Glu His Ala Ser Gly Tyr Val Ser Arg Asp Thr Ser Ser
 165 170 175
 Ser Pro Thr Thr Gly Ser Thr Val Gln Ser Val Asp Leu Ile Phe Thr
 180 185 190
 Arg Leu Trp Ile Tyr Ser His His Ile Tyr Asn Lys Cys Lys Arg Lys
 195 200 205
 Asn Ile Leu Glu Trp Xaa Lys Glu Leu Ser Leu Ser Gly Phe Ser Met
 210 215 220
 Pro Gly Lys Pro Gly Val Val Cys Val Glu Gly Pro Gln Ser Ala Cys
 225 230 235 240
 Glu Glu Phe Trp Ser Arg Leu Arg Lys Leu Asn Ser Glu Glu Asn Phe
 245 250 255
 Asn Ser Pro Ser Glu Lys Thr Phe Leu Xaa Met Val Gln Met Met Lys
 260 265 270
 Arg Lys Asp Lys Gly Asn Phe Pro Phe Leu Lys Lys Lys Cys Ser Val
 275 280 285
 Leu Met Glu Pro Gly Glu Thr Thr Trp Thr Leu Val Ser Ser Ile Ser
 290 295 300
 Ser
 305

<210> 568

<211> 596

<212> PRT

<213> Homo sapiens

576

<400> 568

Gln	Glu	Arg	Asp	Gly	Ala	Lys	Met	Ala	Ala	Ala	Asp	Gly	Asp	Asp	Ser	1	5	10	15
Leu	Tyr	Pro	Ile	Ala	Val	Leu	Ile	Asp	Glu	Leu	Arg	Asn	Glu	Asp	Val	20	25	30	
Gln	Leu	Arg	Leu	Asn	Ser	Ile	Lys	Lys	Leu	Ser	Thr	Ile	Ala	Leu	Ala	35	40	45	
Leu	Gly	Val	Glu	Arg	Thr	Arg	Ser	Glu	Leu	Leu	Pro	Phe	Leu	Thr	Asp	50	55	60	
Thr	Ile	Tyr	Asp	Glu	Asp	Glu	Val	Leu	Leu	Ala	Leu	Ala	Glu	Gln	Leu	65	70	75	80
Gly	Thr	Phe	Thr	Thr	Leu	Val	Gly	Gly	Pro	Glu	Tyr	Val	His	Cys	Leu	85	90	95	
Leu	Pro	Pro	Leu	Glu	Ser	Leu	Ala	Thr	Val	Glu	Glu	Thr	Val	Val	Arg	100	105	110	
Asp	Lys	Ala	Val	Glu	Ser	Leu	Arg	Ala	Ile	Ser	His	Glu	His	Ser	Pro	115	120	125	
Ser	Asp	Leu	Glu	Ala	His	Phe	Val	Pro	Leu	Val	Lys	Arg	Leu	Ala	Gly	130	135	140	
Gly	Asp	Trp	Phe	Thr	Ser	Arg	Thr	Ser	Ala	Cys	Gly	Leu	Phe	Ser	Val	145	150	155	160
Cys	Tyr	Pro	Arg	Val	Ser	Ser	Ala	Val	Lys	Ala	Glu	Leu	Arg	Gln	Tyr	165	170	175	
Phe	Arg	Asn	Leu	Cys	Ser	Asp	Asp	Thr	Pro	Met	Val	Arg	Arg	Ala	Ala	180	185	190	
Ala	Ser	Lys	Leu	Gly	Glu	Phe	Ala	Lys	Val	Leu	Glu	Leu	Asp	Asn	Val	195	200	205	
Lys	Ser	Glu	Ile	Ile	Pro	Met	Phe	Ser	Asn	Leu	Ala	Ser	Asp	Glu	Gln	210	215	220	
Asp	Ser	Val	Arg	Leu	Leu	Ala	Val	Glu	Ala	Cys	Val	Asn	Ile	Ala	Gln	225	230	235	240
Leu	Leu	Pro	Gln	Glu	Asp	Leu	Glu	Ala	Leu	Val	Met	Pro	Thr	Leu	Arg	245	250	255	
Gln	Ala	Ala	Glu	Asp	Lys	Ser	Trp	Arg	Val	Arg	Tyr	Met	Val	Ala	Asp				

577

260	265	270
Lys Phe Thr Glu Leu Gln Lys Ala Val Gly Pro Glu Ile Thr Lys Thr		
275	280	285
Asp Leu Val Pro Ala Phe Gln Asn Leu Met Lys Asp Cys Glu Ala Glu		
290	295	300
Val Arg Ala Ala Ala Ser His Lys Val Lys Glu Phe Cys Glu Asn Leu		
305	310	315
Ser Ala Asp Cys Arg Glu Asn Val Ile Met Ser Gln Ile Leu Pro Cys		
325	330	335
Ile Lys Glu Leu Val Ser Asp Ala Asn Gln His Val Lys Ser Ala Leu		
340	345	350
Ala Ser Val Ile Met Gly Leu Ser Pro Ile Leu Gly Lys Asp Asn Thr		
355	360	365
Ile Glu His Leu Leu Pro Leu Phe Leu Ala Gln Leu Lys Asp Glu Cys		
370	375	380
Pro Glu Val Arg Leu Asn Ile Ile Ser Asn Leu Asp Cys Val Asn Glu		
385	390	395
Val Ile Gly Ile Arg Gln Leu Ser Gln Ser Leu Leu Pro Ala Ile Val		
405	410	415
Glu Leu Ala Glu Asp Ala Lys Trp Arg Val Arg Leu Ala Ile Ile Glu		
420	425	430
Tyr Met Pro Leu Leu Ala Gly Gln Leu Gly Val Glu Phe Phe Asp Glu		
435	440	445
Lys Leu Asn Ser Leu Cys Met Ala Trp Leu Val Asp His Val Tyr Ala		
450	455	460
Ile Arg Glu Ala Ala Thr Ser Asn Leu Lys Lys Leu Val Glu Lys Phe		
465	470	475
Gly Lys Glu Trp Ala His Ala Thr Ile Ile Pro Lys Val Leu Ala Met		
485	490	495
Ser Gly Asp Pro Asn Tyr Leu His Arg Met Thr Thr Leu Phe Cys Ile		
500	505	510
Asn Val Leu Ser Glu Val Cys Gly Gln Asp Ile Thr Thr Lys His Met		
515	520	525
Leu Pro Thr Val Leu Arg Met Ala Gly Asp Pro Val Ala Asn Val Arg		

578

530 535 540
 Phe Asn Val Ala Lys Ser Leu Gln Lys Ile Gly Pro Ile Leu Asp Asn
 545 550 555 560
 Ser Thr Leu Gln Ser Glu Val Lys Pro Ile Leu Glu Lys Leu Thr Gln
 565 570 575
 Asp Gln Asp Val Asp Val Lys Tyr Phe Ala Gln Glu Ala Leu Thr Val
 580 585 590
 Leu Ser Leu Ala
 595

<210> 569
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 569
 Ser Thr Val Trp Thr Arg Asn Val Pro Cys His His Ala Met Lys Tyr
 1 5 10 15
 Cys Tyr Arg Phe Asn Ile Ala His Leu Cys Arg Met Asn Ser Gly Gly
 20 25 30
 Leu Pro Gln Val Thr Val Arg Thr Val Asp Gly Glu Ile Ala Asp Ala
 35 40 45
 Leu Leu Ser Arg Phe Ser Val Thr Phe Ser Met Phe Ile Thr Gln Trp
 50 55 60
 Val Phe Ile Asn Met Leu Ile Lys Leu Phe Thr Gly Pro Val Ile Val
 65 70 75 80
 Leu Asn Ser Cys Ser Phe Val Phe His Cys Leu Asp Val
 85 90

<210> 570
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

579

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 570

Xaa Gln Leu Asp Tyr Arg Glu Tyr Leu Glu Ser Tyr Leu Ser Tyr Pro
 1 5 10 15

Leu Leu Xaa Asn Met Lys Ser His Ala Leu Asp Ile Leu Tyr Ile Ile
 20 25 30

Arg Phe Leu Leu Cys Phe Trp Leu Cys Cys Pro Pro Ser Pro Trp Gly
 35 40 45

Asp Ile Trp Glu Gln Thr Tyr Leu Asp Leu Glu
 50 55

<210> 571

<211> 132

<212> PRT

<213> Homo sapiens

<400> 571

Ile Ile Tyr Phe Gln Cys Phe Leu His Val Leu Ile Cys Ser Phe Ser
 1 5 10 15

Gln Leu Asn Ala Pro Thr Gly Leu Ser Pro Val Ser Ile Gln Ser Val
 20 25 30

Glu Ile Lys Asp Ser Ser Phe Leu Leu Ile Ser Ile Leu Val Ser Ile
 35 40 45

Leu Asn Leu Glu Thr Ser Cys Phe Tyr Asp Ile Ser His Leu Ile Phe
 50 55 60

Phe Ile Phe Tyr Leu Arg Asn Met Lys Lys Lys Tyr Thr Lys Met Val
 65 70 75 80

Lys Leu Leu His Lys Ser Ala Pro Ala Gln Ser Asp Ser Cys Lys Cys
 85 90 95

Pro Phe Ile Cys Cys Val Cys Ile Ser Arg Ile Ser Ile Gly Ser Arg
 100 105 110

Ser Gly Tyr Gln Tyr Ile Met His Arg Ser Val Gly Cys Leu Lys Ala
 115 120 125

580

Lys Gln Glu Asn
130

<210> 572
<211> 145
<212> PRT
<213> Homo sapiens

<400> 572
Val Gly Leu Ala Pro Leu Gln Arg Phe Trp Gly Ser Gly Cys Cys Val
1 5 10 15
Ser Pro Cys Leu Cys Pro Gly His Pro Lys Pro Phe Cys Tyr Leu Leu
20 25 30
Gly Leu Trp Glu Gly Phe Phe Phe Phe Phe Leu Glu Pro Ala Pro Val
35 40 45
Leu His Thr Ala Pro His Ala Ser Ala Ser Tyr Arg Cys Ala Ile Met
50 55 60
Gly Gly Met Gly Gly Ala Glu Gly Leu Pro His Pro Gly Gln Ala Lys
65 70 75 80
Ala Val Gly Arg Gly Ala Leu Pro Pro Phe Pro Ala Pro Ser Ser Ser
85 90 95
Leu Ile Lys Thr Trp Leu Leu Ile Phe Asn Lys Asp Leu Phe Val Thr
100 105 110
Glu Lys Lys Lys Lys Arg Ala Gly Arg Ser Lys Arg Ile Pro Arg Gly
115 120 125
Gly Pro Ser Phe Thr Arg Gly Met Ala Asn Val His Lys Leu Ser Ser
130 135 140
Leu
145

<210> 573
<211> 286
<212> PRT
<213> Homo sapiens

<400> 573
Val Ile Ser Glu Arg Leu Ser Ala Cys Pro Pro Ser Arg Arg Val Ala
1 5 10 15

581

Gly Ala Cys Ala Ser Arg Ser Thr Ser Leu Leu Leu Ser Arg Pro Arg
 20 25 30

Pro Gly Gly Pro Glu Arg Glu Ala Gly Thr Met Phe Arg Arg Lys Leu
 35 40 45

Thr Ala Leu Asp Tyr His Asn Pro Ala Gly Phe Asn Cys Lys Asp Glu
 50 55 60

Thr Glu Phe Arg Asn Phe Ile Val Trp Leu Glu Asp Gln Lys Ile Arg
 65 70 75 80

His Tyr Lys Ile Glu Asp Arg Gly Asn Leu Arg Asn Ile His Ser Ser
 85 90 95

Asp Trp Pro Lys Phe Phe Glu Lys Tyr Leu Arg Asp Val Asn Cys Pro
 100 105 110

Phe Lys Ile Gln Asp Arg Gln Glu Ala Ile Asp Trp Leu Leu Gly Leu
 115 120 125

Ala Val Arg Leu Glu Tyr Gly Asp Asn Ala Glu Lys Tyr Lys Asp Leu
 130 135 140

Val Pro Asp Asn Ser Lys Thr Ala Asp Asn Ala Thr Lys Asn Ala Glu
 145 150 155 160

Pro Leu Ile Asn Leu Asp Val Asn Asn Pro Asp Phe Lys Ala Gly Val
 165 170 175

Met Ala Leu Ala Asn Leu Leu Gln Ile Gln Arg His Asp Asp Tyr Leu
 180 185 190

Val Met Leu Lys Ala Ile Arg Ile Leu Val Gln Glu Arg Leu Thr Gln
 195 200 205

Asp Ala Val Ala Lys Ala Asn Gln Thr Lys Glu Gly Leu Pro Val Ala
 210 215 220

Leu Asp Lys His Ile Leu Gly Phe Asp Thr Gly Asp Ala Val Leu Asn
 225 230 235 240

Glu Ala Ala Gln Ile Leu Arg Leu Leu His Ile Glu Glu Leu Arg Glu
 245 250 255

Leu Gln Thr Lys Ile Asn Glu Ala Ile Val Ala Val Gln Ala Ile Ile
 260 265 270

Ala Asp Pro Lys Thr Asp His Arg Leu Gly Lys Val Gly Arg
 275 280 285

582

<210> 574

<211> 63

<212> PRT

<213> Homo sapiens

<400> 574

Met Arg Lys Ile Arg His Arg Glu Val Lys Val Gly Ile Asp Pro Asn
 1 5 10 15

Leu His Asn Lys Ile Met Thr Ser Pro Ala Phe Lys Leu Ile Ile Lys
 20 25 30

Gly Trp Ala Gly Phe Val Leu Leu Tyr Val Ser Gly Asn Leu Tyr Leu
 35 40 45

Leu His Phe Pro Phe Ser Gln Asn Leu Ser His Met Thr Asn Ile
 50 55 60

<210> 575

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 575

Ala Ser Leu Pro Trp Ser Ser Tyr Glu Gln Glu Lys Glu Ala Leu Thr
 1 5 10 15

His Ser Phe Arg Glu Ala Ser Ser Thr Gln Gln Glu Thr Ile Asp Arg
 20 25 30

Leu Thr Ser Gln Leu Glu Ala Phe Gln Ala Lys Met Lys Arg Val Glu
 35 40 45

Glu Ser Ile Leu Ser Arg Asn Tyr Lys Lys His Ile Gln Asp Tyr Gly
 50 55 60

583

Ser Pro Ser Gln Phe Trp Glu Gln Glu Leu Glu Ser Leu His Phe Val
 65 70 75 80
 Ile Glu Met Lys Asn Glu Arg Ile His Glu Leu Asp Arg Arg Leu Ile
 85 90 95
 Leu Met Glu Thr Val Lys Glu Lys Asn Leu Ile Leu Glu Glu Lys Ile
 100 105 110
 Thr Thr Leu Gln Gln Glu Asn Glu Asp Leu His Val Arg Ser Arg Asn
 115 120 125
 Gln Val Val Leu Ser Arg Gln Leu Ser Glu Asp Leu Leu Leu Thr Arg
 130 135 140
 Glu Ala Leu Glu Lys Glu Val Gln Leu Arg Xaa Gln Leu Gln Gln Glu
 145 150 155 160
 Lys Glu Glu Leu Xaa Tyr Arg Val Leu Gly Ala Asn Ala Ser Pro Ala
 165 170 175
 Phe Pro Leu Ala Pro Val Thr Pro Thr Gly Lys Gly Gly
 180 185

<210> 576

<211> 153

<212> PRT

<213> Homo sapiens

<400> 576

Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala Val Tyr
 1 5 10 15
 Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala Ile Arg
 20 25 30
 Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala Ala Thr
 35 40 45
 Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln Ala Trp
 50 55 60
 Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg
 65 70 75 80
 Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys
 85 90 95
 Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln

584

100 105 110
 Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg
 115 120 125
 Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly Thr Ser
 130 135 140
 Ala Ala Pro Val Pro Ser Asp Asn His
 145 150

<210> 577
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 577
 Thr Glu Ile Thr Pro Leu His Ser Ser Leu Ala Lys Lys Leu Pro Lys
 1 5 10 15
 Asn Glu Pro Gln Asn Pro Gly Ala Asn Ser Ala Arg Gly Arg Gly Val
 20 25 30
 Asp Leu Thr Glu Pro Thr Gln Pro Thr Arg Asn Gln Cys Cys Ser Asn
 35 40 45

<210> 578
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)

585

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 578

Lys Thr Ile Gln Asp Pro Leu Ala Ala Thr Leu Phe Ser Ser Ser Leu
 1 5 10 15

Leu Asn Ser Ile Ser Lys Ile Gly Asn Arg Ala Arg Arg Ile Pro Ser
 20 25 30

Thr Gln Pro Ser Ala Trp His Lys Xaa Val Gly Thr Ile Lys Phe Ser
 35 40 45

Met Gly Trp Glu His Gly Tyr Ser Leu Gly Cys His Arg Lys Gly Val
 50 55 60

Gly Xaa His Arg Ser His Ile His Leu Ile Ser Trp Asp Val Pro Leu
 65 70 75 80

His Arg Gly Asn Thr Asn Phe Arg Gly Phe Trp Gly Xaa Gly Leu Gly
 85 90 95

Ser Asp

<210> 579

<211> 194

<212> PRT

<213> Homo sapiens

<400> 579

Thr Tyr Asn Ile Lys Met Ala Ser Lys Arg Ala Leu Val Ile Leu Ala
 1 5 10 15

Lys Gly Ala Glu Glu Met Glu Thr Val Ile Pro Val Asp Val Met Arg
 20 25 30

Arg Ala Gly Ile Lys Val Thr Val Ala Gly Leu Ala Gly Lys Asp Pro
 35 40 45

Val Gln Cys Ser Arg Asp Val Val Ile Cys Pro Asp Ala Ser Leu Glu
 50 55 60

Asp Ala Lys Lys Glu Gly Pro Tyr Asp Val Val Val Leu Pro Gly Gly
 65 70 75 80

Asn Leu Gly Ala Gln Asn Leu Ser Glu Ser Ala Ala Val Lys Glu Ile
 85 90 95

Leu Lys Glu Gln Glu Asn Arg Lys Gly Leu Ile Ala Ala Ile Cys Ala

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<210> 580
<211> 192
<212> PRT
<213> Homo sapiens
```

```

<400> 580
Asp Pro Arg Arg Pro Pro Thr Arg Pro Trp Gly Leu Pro Arg Ala Pro
 1          5          10          15
Ala Thr Ala Arg Thr Arg Gly Arg Ser Leu Asn Ile Pro Leu Thr Thr
          20          25          30
Arg Arg Arg Pro Ala Thr Glu Ala Pro Ser Thr Leu Ser Pro His Ile
          35          40          45
Val Ser Pro Ser Gly Phe Leu Gly Phe Ser Val Phe Ser Ser Phe Phe
          50          55          60
Phe Phe Leu Thr Arg Ser Val Leu Pro Val Asn Gln Gly Ser Val Ser
 65          70          75          80
Val Ser Val Gly Ser Gly Ser Arg Ala Phe Phe Pro Phe Ala Leu Ile
          85          90          95
Leu Arg Lys Ala Glu Pro Leu Gly Cys Gly Gly Arg Gly Gln Gly His
          100          105          110
Ile Pro Ile Arg Val Gly Arg Gly Ser Leu Leu Ala His Ser Gly Cys
          115          120          125

```

587

Ala Gly Lys Lys Arg Pro Gly Leu Gly Arg Asn Arg Ser Pro Thr Val
 130 135 140

Ser Gly Cys Leu Ala Ser Ser Pro Phe Cys Gln Leu Ser Ser Leu Trp
 145 150 155 160

Phe Leu Cys Pro Gln Val Ser Gly Ser Ile His Lys Arg Lys Ile His
 165 170 175

Phe Phe Pro Gln Gly Trp Gly Lys Asp Ser Gly Glu Ser Ala Arg Lys
 180 185 190

<210> 581

<211> 112

<212> PRT

<213> Homo sapiens

<400> 581

Lys Asn Lys Gln Asn Tyr Val Ala Arg Leu Thr Val Val Met Phe Ile
 1 5 10 15

Cys His Arg Ser Lys Val His Lys Val Tyr Gln Ile Tyr Ile Tyr Leu
 20 25 30

Gly Tyr Leu Asp Arg Leu Leu Leu Phe Phe Phe Tyr Leu Ser Leu Gln
 35 40 45

Glu Phe Gly Asn Ser Leu Ser Leu Phe Leu Ile Leu Lys Ile Leu Asn
 50 55 60

Cys Asn Ser Phe Leu Leu Pro Asn Val Cys Val His Ile Gln Ser Asn
 65 70 75 80

Glu Thr Ile Ser Ser His Thr Thr Thr Gly Val Gly Thr Phe Ser Gln
 85 90 95

Ile Leu Met Cys Leu Tyr Val Asn Arg Cys Leu Tyr Glu Ile Phe Ser
 100 105 110

<210> 582

588

<211> 80

<212> PRT

<213> Homo sapiens

<400> 582

```

Val Glu Gly Ala Pro Cys Pro Thr Ser Pro Val Val Pro Arg Leu His
  1              5              10              15

Pro Val Ala Gly His Gly Pro Gly Pro Ser Cys Ile Cys Pro Phe Leu
              20              25              30

Gly Tyr Ser Cys Gly Arg Cys Pro Arg Gly Arg Ser Asn Gly Thr Pro
              35              40              45

Phe Pro Leu Pro Cys Pro Pro Pro Ala Ser Pro Pro Arg Pro Ala Thr
              50              55              60

Trp Pro Ser Pro Phe Arg Ser Ser Ser Cys Asn Lys Cys Phe Asn Phe
  65              70              75              80

```

<210> 583

<211> 424

<212> PRT

<213> Homo sapiens

<400> 583

```

Ala Glu Leu Pro Gly Gly Gln Asp Ala Gly Gly Gly Ala Leu Trp Pro
  1              5              10              15

Leu Cys Gly Ser Arg Gly Leu Cys Val Ser Asp Arg Phe Pro Gly Asn
              20              25              30

Phe Arg Ala Arg Leu Thr Ser Trp Lys Phe Lys Tyr Ser Ile Ala Leu
              35              40              45

Val Ile Leu Gly Asn Leu Glu Lys Arg Pro Gly Leu Arg Ile Gln Thr
              50              55              60

Trp Ala Leu Arg Trp Pro Arg Thr Cys Arg Leu His Leu Gln Pro Arg
  65              70              75              80

Ala Leu Pro Gly Ser Ser Met Ala Asp Gln Ala Pro Phe Asp Thr Asp
              85              90              95

Val Asn Thr Leu Thr Arg Phe Val Met Glu Glu Gly Arg Lys Ala Arg
              100              105              110

```

Gly	Thr	Gly	Glu	Leu	Thr	Gln	Leu	Leu	Asn	Ser	Leu	Cys	Thr	Ala	Val		
		115					120					125					
Lys	Ala	Ile	Ser	Ser	Ala	Val	Arg	Lys	Ala	Gly	Ile	Ala	His	Leu	Tyr		
	130					135					140						
Gly	Ile	Ala	Gly	Ser	Thr	Asn	Val	Thr	Gly	Asp	Gln	Val	Lys	Lys	Leu		
145					150					155					160		
Asp	Val	Leu	Ser	Asn	Asp	Leu	Val	Met	Asn	Met	Leu	Lys	Ser	Ser	Phe		
				165					170					175			
Ala	Thr	Cys	Val	Leu	Val	Ser	Glu	Glu	Asp	Lys	His	Ala	Ile	Ile	Val		
			180					185						190			
Glu	Pro	Glu	Lys	Arg	Gly	Lys	Tyr	Val	Val	Cys	Phe	Asp	Pro	Leu	Asp		
	195						200					205					
Gly	Ser	Ser	Asn	Ile	Asp	Cys	Leu	Val	Ser	Val	Gly	Thr	Ile	Phe	Gly		
	210					215					220						
Ile	Tyr	Arg	Lys	Lys	Ser	Thr	Asp	Glu	Pro	Ser	Glu	Lys	Asp	Ala	Leu		
225					230					235					240		
Gln	Pro	Gly	Arg	Asn	Leu	Val	Ala	Ala	Gly	Tyr	Ala	Leu	Tyr	Gly	Ser		
				245					250					255			
Ala	Thr	Met	Leu	Val	Leu	Ala	Met	Asp	Cys	Gly	Val	Asn	Cys	Phe	Met		
			260					265					270				
Leu	Asp	Pro	Ala	Ile	Gly	Glu	Phe	Ile	Leu	Val	Asp	Lys	Asp	Val	Lys		
		275					280					285					
Ile	Lys	Lys	Lys	Gly	Lys	Ile	Tyr	Ser	Leu	Asn	Glu	Gly	Tyr	Ala	Lys		
	290					295					300						
Asp	Phe	Asp	Pro	Ala	Val	Thr	Glu	Tyr	Ile	Gln	Arg	Lys	Lys	Phe	Pro		
305					310					315					320		
Pro	Asp	Asn	Ser	Ala	Pro	Tyr	Gly	Ala	Arg	Tyr	Val	Gly	Ser	Met	Val		
				325					330					335			
Ala	Asp	Val	His	Arg	Thr	Leu	Val	Tyr	Gly	Gly	Ile	Phe	Leu	Tyr	Pro		
			340					345					350				
Ala	Asn	Lys	Lys	Ser	Pro	Asn	Gly	Lys	Leu	Arg	Leu	Leu	Tyr	Glu	Cys		
	355						360					365					
Asn	Pro	Met	Ala	Tyr	Val	Met	Glu	Lys	Ala	Gly	Gly	Met	Ala	Thr	Thr		
	370					375					380						

590

Gly Lys Glu Ala Val Leu Asp Val Ile Pro Thr Asp Ile His Gln Arg
 385 390 395 400

Ala Pro Val Ile Leu Gly Ser Pro Asp Asp Val Leu Glu Phe Leu Lys
 405 410 415

Val Tyr Glu Lys His Ser Ala Gln
 420

<210> 584

<211> 64

<212> PRT

<213> Homo sapiens

<400> 584

Arg Leu Ala Ser Asp Asn Thr Gly Ile Ile Val Asn Asn Val Lys Leu
 1 5 10 15

Arg Phe Leu Ala Ser Ile Lys Gly Ala Val Ser Glu Met Ala Leu Ser
 20 25 30

Cys Gln Ser Phe Leu Phe Thr Phe Phe Phe Cys Pro Glu Cys Ile Cys
 35 40 45

Glu Glu Ser Leu Ile Leu Cys Phe Val Glu Ile Ser Thr Gln Pro Gln
 50 55 60

<210> 585

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 585

Leu Val Leu Lys Xaa Lys Ile Ile Gly Ile Ser Leu Leu Ser Gly Leu
 1 5 10 15

Leu His Arg Ala Phe Ser Val Phe Leu Phe Asn Thr Glu Asn Lys Leu
 20 25 30

591

Leu Leu Gln Gln Arg Ser Asp Ala Lys Ile Thr Phe Pro Gly Cys Phe
 35 40 45
 Thr Asn Thr Cys Cys Ser His Pro Leu Ser Asn Pro Ala Glu Leu Glu
 50 55 60
 Glu Ser Asp Ala Leu Gly Val Arg Arg Ala Ala Gln Arg Arg Leu Lys
 65 70 75 80
 Ala Glu Leu Gly Ile Pro Leu Glu Glu Val Pro Pro Glu Glu Ile Asn
 85 90 95
 Tyr Leu Thr Arg Ile His Tyr Lys Ala Gln Ser Asp Gly Ile Trp Gly
 100 105 110
 Glu His Glu Ile Asp Tyr Ile Leu Leu Val Arg Lys Asn Val Thr Leu
 115 120 125
 Asn Pro Asp Pro Asn Glu Ile Lys Ser Tyr Cys Tyr Val Ser Lys Glu
 130 135 140
 Glu Leu Lys Glu Leu Leu Lys Lys Ala Ala Ser Gly Glu Ile Lys Ile
 145 150 155 160
 Thr Pro Trp Phe Lys Ile Ile Ala Ala Thr Phe Leu Phe Lys Trp Trp
 165 170 175
 Asp Asn Leu Asn His Leu Asn Gln Phe Val Asp His Glu Lys Ile Tyr
 180 185 190
 Arg Met

<210> 586

<211> 243

<212> PRT

<213> Homo sapiens

<400> 586

Pro Ala Ala Thr Thr Ser Ser Ser Leu Leu Ala Leu His Arg Val Leu
 1 5 10 15
 Pro Phe Gln Tyr Val Pro Ser Asp Glu Thr Ile Ser Ser Ala Glu Ser
 20 25 30
 Phe Ser Thr Met Trp Lys Trp Ile Leu Thr His Cys Ala Ser Ala Phe
 35 40 45

592

Pro His Leu Pro Gly Cys Cys Cys Cys Cys Phe Leu Leu Leu Phe Leu
 50 55 60
 Val Ser Ser Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val
 65 70 75 80
 Ser Pro Glu Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser
 85 90 95
 Ser Ala Gly Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val
 100 105 110
 Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu
 115 120 125
 Lys Asn Gly Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser
 130 135 140
 Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala
 145 150 155 160
 Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr
 165 170 175
 Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu
 180 185 190
 Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly
 195 200 205
 Arg Gln Met Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly
 210 215 220
 Gln Lys Thr Arg Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val
 225 230 235 240
 Val His Ser

<210> 587

<211> 366

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (120)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 587
 Ser His Cys Leu Lys Lys Asn Leu Ser Lys Arg Ser Leu Gln Phe Leu
 1 5 10 15
 Gly Lys Gln Ser Ile Leu Ser Val Arg Leu Glu Gln Cys Pro Leu Gln
 20 25 30
 Leu Asn Asn Pro Phe Asn Glu Tyr Ser Lys Phe Xaa Gly Lys Gly His
 35 40 45
 Val Gly Thr Thr Ala Thr Lys Lys Ile Asp Val Tyr Leu Pro Leu His
 50 55 60
 Ser Ser Gln Asp Arg Leu Leu Pro Met Thr Val Val Thr Met Ala Ser
 65 70 75 80
 Ala Arg Val Gln Asp Leu Ile Gly Leu Ile Cys Trp Gln Tyr Thr Ser
 85 90 95
 Glu Asp Gly Ser Arg Ser Ser Met Thr Met Ser Val Pro Thr Ala Cys
 100 105 110
 Ile Leu Leu Arg Met Met Gly Xaa Trp Thr Pro Ile Phe Pro Arg Trp
 115 120 125
 Xaa Pro Met Xaa Pro Ile His Lys Phe Gly Phe Ser Thr Leu Ala Leu
 130 135 140
 Val Glu Lys Tyr Ser Ser Pro Gly Leu Thr Ser Lys Glu Ser Leu Phe
 145 150 155 160
 Val Arg Ile Asn Ala Ala His Gly Phe Ser Leu Ile Gln Val Asp Asn
 165 170 175
 Thr Lys Val Thr Met Lys Glu Ile Leu Leu Lys Ala Val Lys Arg Arg
 180 185 190

594

Lys Gly Ser Gln Lys Val Ser Gly Ser Arg Ala Asp Gly Val Phe Glu
 195 200 205
 Glu Asp Ser Gln Ile Asp Ile Ala Thr Val Gln Asp Met Leu Ser Ser
 210 215 220
 His His Tyr Lys Ser Phe Lys Val Ser Met Ile His Arg Leu Arg Phe
 225 230 235 240
 Thr Thr Asp Val Gln Leu Gly Ile Ser Gly Asp Lys Val Glu Ile Asp
 245 250 255
 Pro Val Thr Asn Gln Lys Ala Ser Thr Lys Phe Trp Ile Lys Gln Lys
 260 265 270
 Pro Ile Ser Ile Asp Ser Asp Leu Leu Cys Ala Cys Asp Leu Ala Glu
 275 280 285
 Glu Lys Ser Pro Ser His Ala Ile Phe Lys Leu Thr Tyr Leu Ser Asn
 290 295 300
 His Asp Tyr Lys His Leu Tyr Phe Glu Ser Asp Ala Ala Thr Val Asn
 305 310 315 320
 Glu Ile Val Leu Lys Val Asn Tyr Ile Leu Glu Ser Arg Ala Ser Thr
 325 330 335
 Ala Arg Ala Asp Tyr Phe Ala Gln Lys Gln Arg Lys Leu Asn Arg Arg
 340 345 350
 Thr Ser Phe Ser Phe Gln Lys Glu Lys Lys Ser Gly Gln Gln
 355 360 365

<210> 588

<211> 109

<212> PRT

<213> Homo sapiens

<400> 588

Cys Cys Lys Ser Gly Trp Ala Ile His Ser Leu Ser Glu Leu Thr Glu
 1 5 10 15
 Leu Glu Leu Ala Val Lys Cys Ser Ala Glu Thr Glu His Leu Thr Asp
 20 25 30
 Ile Phe Leu Gln Lys Met Val Leu Gly Asn Lys Ile Ile Thr Ile Arg
 35 40 45

Glu	Trp	Leu	Val	Val	Ser	Thr	Val	Ala	Asn	Ala	Asn	Cys	Trp	Asn	Ser		
50					55					60							
Leu	Tyr	Cys	Arg	Lys	Thr	Gln	Thr	Glu	Thr	Leu	Lys	Phe	Cys	Leu	Ala		
65					70					75						80	
Met	Cys	Phe	Trp	Tyr	Glu	Thr	Asn	Tyr	Cys	Val	Thr	Val	Gln	Val	Gly		
85					90					95							
Asn	Asn	Ser	Phe	Asn	Trp	Val	Phe	Ser	Ile	Asn	Gly	Asn					
100					105												

```
<400> 589
Ser Cys Arg Arg Gly Arg Asp His Ser Gly Ser Gly Val Gly Thr Ala
 1          5          10          15
Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
          20          25          30
Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
          35          40          45
Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
 50          55          60
Glu Ile Ile Ser Gly Arg Met Thr Phe Gly
65          70
```

```
<400> 590
Val Ile Met Tyr Ile Leu Gln Ser Gly Gly Trp Gln Asp Gly Asp Ile
  1               5               10               15
Glu His Asp Cys Ser Leu Ser Leu Phe Ser Ala Tyr Gly Tyr Leu Ser
  20               25               30
Ser Ile Ser Ile Cys Ile Phe Ser Ser Phe His Phe Arg Lys Gln Ser
  35               40               45
```

596

Cys Gln Leu Lys Gln Lys Lys Lys Lys Lys Lys Ser Ser Arg Gln His
 50 55 60
 Thr Val Glu Ser Cys Thr His Thr Ser Ala Gln Ala Arg Cys Leu Ala
 65 70 75 80
 Glu Pro Gln Ser Gly Lys Arg Val Pro Ala Ser Gly Phe Leu Gly Ile
 85 90 95
 Asn Phe Ile Thr Val Tyr Leu Ser His Cys Gly His Ala Ile Trp Gln
 100 105 110
 Gly Glu Asn Gly Arg Leu Gly Leu Leu Cys Glu Ala Val
 115 120 125

<210> 591

<211> 359

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 591

Pro Val Phe Phe Ser Leu Leu Leu Leu Gln Lys Gln Trp Xaa Cys Leu
 1 5 10 15
 Leu Asp Ser Lys Trp Ala Lys Ala Lys Lys Gly Glu Glu Ala Leu Phe
 20 25 30
 Thr Thr Arg Glu Ser Val Val Asp Tyr Cys Asn Arg Leu Leu Lys Lys
 35 40 45
 Gln Phe Phe His Arg Ala Leu Lys Val Met Lys Met Lys Tyr Asp Lys
 50 55 60
 Asp Ile Lys Lys Glu Lys Asp Lys Gly Lys Ala Glu Ser Gly Lys Glu
 65 70 75 80
 Glu Asp Lys Lys Ser Lys Lys Glu Asn Ile Lys Asp Glu Lys Thr Lys
 85 90 95
 Lys Glu Lys Glu Lys Lys Lys Asp Gly Glu Lys Glu Glu Ser Lys Lys
 100 105 110
 Glu Glu Thr Pro Gly Thr Pro Lys Lys Lys Glu Thr Lys Lys Lys Phe

597

115	120	125
Lys Leu Glu Pro His Asp Asp Gln Val Phe Leu Asp Gly Asn Glu Val		
130	135	140
Tyr Val Trp Ile Tyr Asp Pro Val His Phe Lys Thr Phe Val Met Gly		
145	150	155
Leu Ile Leu Val Ile Ala Val Ile Ala Ala Thr Leu Phe Pro Leu Trp		
165	170	175
Pro Ala Glu Met Arg Val Gly Val Tyr Tyr Leu Ser Val Gly Ala Gly		
180	185	190
Cys Phe Val Ala Ser Ile Leu Leu Leu Ala Val Ala Arg Cys Ile Leu		
195	200	205
Phe Leu Ile Ile Trp Leu Ile Thr Gly Gly Arg His His Phe Trp Phe		
210	215	220
Leu Pro Asn Leu Thr Ala Asp Val Gly Phe Ile Asp Ser Phe Arg Pro		
225	230	235
Leu Tyr Thr His Glu Tyr Lys Gly Pro Lys Ala Asp Leu Lys Lys Asp		
245	250	255
Glu Lys Ser Glu Thr Lys Lys Gln Gln Lys Ser Asp Ser Glu Glu Lys		
260	265	270
Ser Asp Ser Glu Lys Lys Glu Asp Glu Glu Gly Lys Val Gly Pro Gly		
275	280	285
Asn His Gly Thr Glu Gly Ser Gly Gly Glu Arg His Ser Asp Thr Asp		
290	295	300
Ser Asp Arg Arg Glu Asp Asp Arg Ser Gln His Ser Ser Gly Asn Gly		
305	310	315
Asn Asp Phe Glu Met Ile Thr Lys Glu Glu Leu Glu Gln Gln Thr Asp		
325	330	335
Gly Asp Cys Glu Glu Asp Glu Glu Glu Glu Asn Asp Gly Glu Thr Pro		
340	345	350
Lys Ser Ser His Glu Lys Ser		
355		

<210> 592

<211> 111

598

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 592

Val	Leu	Cys	Gln	Asn	Cys	Gln	Ser	Val	Val	Glu	Tyr	Ser	Lys	Asn	Asn
1				5					10					15	

Lys	Gly	Cys	Glu	Gln	Ser	Arg	Met	Val	Phe	Xaa	Leu	Tyr	Ser	Arg	Asp
			20					25						30	

Ser	Gly	Pro	Pro	Pro	Ser	Thr	Val	Ser	Glu	Ala	Glu	Phe	Glu	Asp	Ile
		35					40						45		

Met	Lys	Arg	Asn	Arg	Ala	Ile	Ser	Ser	Ser	Pro	Ile	Ser	Lys	Ala	Val
	50					55					60				

Ser	Gly	Ala	Ser	Ala	Gly	Asp	Tyr	Ser	Asp	Ala	Ile	Glu	Thr	Leu	Leu
65					70					75					80

Thr	Ala	Ile	Ala	Val	Ile	Lys	Gln	Ser	Arg	Val	Ala	Asn	Asp	Glu	Arg
				85					90					95	

Cys	Arg	Val	Leu	Ile	Ser	Ser	Leu	Lys	Asp	Cys	Leu	His	Gly	His	
			100					105					110		

<210> 593

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

599

<400> 593

```

Lys Thr Gly Lys Ile Leu Ala Asn Met Glu Leu Pro Gly Ser Ser Leu
 1             5             10             15

Asn Ile Leu Thr Val Tyr Ala Arg Glu His Thr Phe Ser Phe Glu Asn
      20             25             30

Ser Ala Ser Ser Lys Pro Pro Pro Thr Ile Gly Tyr His Phe Tyr Gly
      35             40             45

Pro Ser Gly Asp Ala Ser Glu Leu Trp Xaa Lys Asn Gly Asp Leu Leu
      50             55             60

Thr Met Lys Glu Tyr His Cys Leu Leu Gln Leu Leu Cys Pro Asp Phe
 65             70             75             80

Pro Leu Glu Leu Xaa Gln Lys Ala Ala Arg Ile Val Leu Met Asp Asp
      85             90             95

Ala Met Asp Cys Leu Met Ser Phe Ser Asp Phe Leu Phe Ala Phe Gln
      100             105             110

Ile Gln Phe Tyr Tyr Ser Glu Phe Leu Asp Ser Val Ala Ala Ile Tyr
      115             120             125

Glu Asp Leu Leu Ser Gly Lys Asn Pro Asn Thr Val Ile Gly Ala Asp
      130             135             140

Leu Val Gln Trp Ala Ala Pro Pro Arg Pro Ala Leu Gly Xaa Ala Arg
      145             150             155             160

His Ala

```

<210> 594

<211> 195

<212> PRT

<213> Homo sapiens

<400> 594

```

Ser Val Ala Ser Ser Arg Gly Thr Ala Cys Asp Leu Pro Ala Arg Gly
 1             5             10             15

Pro Met Leu Pro Ala Ala Ala Arg Pro Leu Trp Gly Pro Cys Leu Gly
      20             25             30

Leu Arg Ala Ala Ala Phe Arg Leu Ala Arg Arg Gln Val Pro Cys Val
      35             40             45

```

600

Cys Ala Val Arg His Met Arg Ser Ser Gly His Gln Arg Cys Glu Ala
 50 55 60
 Leu Ala Gly Ala Pro Leu Asp Asn Ala Pro Lys Glu Tyr Pro Pro Lys
 65 70 75 80
 Ile Gln Gln Leu Val Gln Asp Ile Ala Ser Leu Thr Leu Leu Glu Ile
 85 90 95
 Ser Asp Leu Asn Glu Leu Leu Lys Lys Thr Leu Lys Ile Gln Asp Val
 100 105 110
 Gly Leu Val Pro Met Gly Gly Val Met Ser Gly Ala Val Pro Ala Ala
 115 120 125
 Ala Ala Gln Glu Ala Val Glu Glu Asp Ile Pro Ile Ala Lys Glu Arg
 130 135 140
 Thr His Phe Thr Val Arg Leu Thr Glu Ala Asn Arg Gly Gln Ser Glu
 145 150 155 160
 Ala Asp Gln Gly Asn Gln Glu Leu His Pro Arg His Gln Pro Arg Pro
 165 170 175
 Gly Lys Glu Ala Gly Gly Val Pro Ala Pro Gly Asn Gln Ser Gln Cys
 180 185 190
 Arg Gln Ser
 195

<210> 595

<211> 99

<212> PRT

<213> Homo sapiens

<400> 595

Ala Pro Gln Trp Gln Val His Leu Gln Val Pro Gly Leu Tyr Tyr Phe
 1 5 10 15
 Thr Tyr His Ala Ser Ser Arg Gly Asn Leu Cys Val Asn Leu Met Arg
 20 25 30
 Gly Arg Glu Arg Ala Gln Lys Val Val Thr Phe Cys Asp Tyr Ala Tyr
 35 40 45
 Asn Thr Phe Gln Val Thr Thr Gly Gly Met Val Leu Lys Leu Glu Gln
 50 55 60

601

Gly Glu Asn Val Phe Leu Gln Ala Thr Asp Lys Asn Ser Leu Leu Gly
 65 70 75 80

Met Glu Gly Ala Asn Ser Ile Phe Ser Gly Phe Leu Leu Phe Pro Asp
 85 90 95

Met Glu Ala

<210> 596

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 596

Ala Glu Asp Pro Ala Gly Gly Leu Ala Gly Gln Asp Thr Met Phe Ala
 1 5 10 15

Arg Gly Leu Lys Arg Lys Cys Val Gly His Glu Glu Asp Val Glu Gly
 20 25 30

Ala Leu Ala Gly Leu Lys Thr Val Ser Ser Tyr Ser Leu Gln Arg Gln
 35 40 45

Ser Leu Leu Asp Met Ser Leu Val Lys Leu Gln Leu Cys His Met Leu
 50 55 60

Val Glu Pro Asn Leu Cys Arg Ser Val Leu Ile Ala Asn Thr Val Arg
 65 70 75 80

Gln Ile Gln Glu Glu Met Thr Gln Asp Gly Thr Trp Arg Thr Val Ala
 85 90 95

Pro Gln Ala Ala Glu Arg Ala Pro Xaa Asp Arg Leu Val Ser Thr Glu
 100 105 110

Ile Leu Cys Arg Ala Ala Trp Gly Gln Glu Gly Ala His Pro Ala Pro
 115 120 125

Gly Leu Gly Asp Gly His Thr Gln Gly Pro Val Ser Asp Leu Cys Pro
 130 135 140

Val Thr Ser Ala Gln Ala Pro Arg His Leu Gln Ser Ser Ala Trp Glu
 145 150 155 160

602

Met Asp Gly Pro Arg Glu Asn Arg Gly Ser Phe His Lys Ser Leu Asp
 165 170 175

Gln Ile Phe Glu Thr Leu Glu Thr Lys Asn Pro Ser Cys Met Glu Glu
 180 185 190

Leu Phe Ser Asp Val Asp Ser Pro Tyr Tyr Asp Leu Asp Thr Val Leu
 195 200 205

Thr Gly Met Met Gly Gly Ala Arg Pro Gly Pro Cys Glu Gly Leu Glu
 210 215 220

Gly Leu Ala Pro Ala Thr Pro Gly Pro Ser Ser Ser Cys Lys Ser Asp
 225 230 235 240

Leu Gly Glu Leu Asp His Val Val Glu Ile Leu Val Glu Thr
 245 250

<210> 597

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 597

Cys Ser Met Val Pro Ser Ser Ala Ser Xaa Gln Val Arg Ser His Tyr
 1 5 10 15

Val Asp Trp Arg Met Trp Arg Asp Val Lys Arg Arg Lys Met Ala Tyr
 20 25 30

Glu Tyr Ala Asp Glu Arg Leu Arg Ile Asn Ser Leu Arg Lys Asn Thr
 35 40 45

Ile Leu Pro Lys Ile Leu Gln Asp Val Ala Asp Glu Glu Ile Ala Ala
 50 55 60

Leu Pro Arg Asp Ser Cys Pro Val Arg Ile Arg Asn Arg Cys Val Met
 65 70 75 80

Thr Ser Arg Pro Arg Gly Val Lys Arg Arg Trp Arg Leu Ser Arg Ile
 85 90 95

Val Phe Arg His Leu Ala Asp His Gly Gln Leu Ser Gly Ile Gln Arg

603

100 105 110

Ala Thr Trp
115

<210> 598
<211> 99
<212> PRT
<213> Homo sapiens

<400> 598
Ala Arg Pro Cys Met Asn Ser Thr Lys Ala Leu Pro His Gly Arg Glu
1 5 10 15
His Thr Arg Leu Lys Met Leu Ser Tyr Leu Lys Asn Lys Met Cys Lys
20 25 30
Ser Ser Gly Trp His Lys Thr Lys Val Asn Ala Ser Trp Gly Thr Phe
35 40 45
Leu Arg Gly Leu Ala Glu Cys Val Asn Ile Ile Asp Phe Cys Leu Cys
50 55 60
Tyr Met Thr Ser Val Thr Ser Leu Lys Ile Cys Thr Ile Gln Phe Gln
65 70 75 80
Leu Trp Ile Thr Ser Val Asp Leu Cys Glu Gly Phe Tyr Leu Cys Arg
85 90 95
Met Gly Val

<210> 599
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 599
Arg Ala Glu Leu Leu Gly Cys Arg His Tyr Glu Val Ala Arg Leu Leu
1 5 10 15
Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys Leu Thr Glu Pro

604

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                20                25                30
Arg Lys Ala Phe Asp Met Ile Ser Gln Arg Ser Ala Gly Gly Arg Pro
      35                40                45
Gly Ser Gly Pro Gln Leu Gly Xaa Gly Arg Gly Thr Leu Arg Leu Arg
      50                55                60
Ser Arg Gly Pro Ala Thr Val Glu Asp Leu Pro Ser Ala Phe Glu Glu
      65                70                75                80
Lys Ala Ile Glu Lys Val Asp Asp Leu Leu Glu Ser Tyr Met Gly Ile
      85                90                95
Arg Asp Thr Glu Leu Ala Ala Thr Met Val Glu Leu Gly Lys Asp Lys
      100                105                110
Arg Asn Pro Asp Glu Leu Ala Glu Ala Leu Asp Glu Arg Leu Gly Asp
      115                120                125
Phe Ala Phe Pro Asp Glu Phe Val Phe Asp Val Trp Gly Ala Ile Gly
      130                135                140
Asp Ala Lys Val Gly Arg Tyr
      145                150

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<210> 600

<211> 315

<212> PRT

<213> Homo sapiens

<400> 600

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Ser Thr His Ala Ser Gly Ala Ser Gly Gly Ala Gln Val Ala Gly Arg
  1                5                10                15
Leu Gly Leu Gly Cys Pro Leu His Leu His Val Phe Ala Val Val Ser
      20                25                30
Ala Met Leu Pro Leu Leu Arg Cys Val Pro Arg Val Leu Gly Ser Ser
      35                40                45
Val Ala Gly Leu Arg Ala Ala Ala Pro Ala Ser Pro Phe Arg Gln Leu
      50                55                60
Leu Gln Pro Ala Pro Arg Leu Cys Thr Arg Pro Phe Gly Leu Leu Ser
      65                70                75                80
Val Arg Ala Gly Ser Glu Arg Arg Pro Gly Leu Leu Arg Pro Arg Gly
      85                90                95

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605

Pro Cys Ala Cys Gly Cys Gly Cys Gly Ser Leu His Thr Asp Gly Asp
 100 105 110
 Lys Ala Phe Val Asp Phe Leu Ser Asp Glu Ile Lys Glu Glu Arg Lys
 115 120 125
 Ile Gln Lys His Lys Thr Leu Pro Lys Met Ser Gly Gly Trp Glu Leu
 130 135 140
 Glu Leu Asn Gly Thr Glu Ala Lys Leu Val Arg Lys Val Ala Gly Glu
 145 150 155 160
 Lys Ile Thr Val Thr Phe Asn Ile Asn Asn Ser Ile Pro Pro Thr Phe
 165 170 175
 Asp Gly Glu Glu Glu Pro Ser Gln Gly Gln Lys Val Glu Glu Gln Glu
 180 185 190
 Pro Glu Leu Thr Ser Thr Pro Asn Phe Val Val Glu Val Ile Lys Asn
 195 200 205
 Asp Asp Gly Lys Lys Ala Leu Val Leu Asp Cys His Tyr Pro Glu Asp
 210 215 220
 Glu Val Gly Gln Glu Asp Glu Ala Glu Ser Asp Ile Phe Ser Ile Arg
 225 230 235 240
 Glu Val Ser Phe Gln Ser Thr Gly Glu Ser Glu Trp Lys Asp Thr Asn
 245 250 255
 Tyr Thr Leu Asn Thr Asp Ser Leu Asp Trp Ala Leu Tyr Asp His Leu
 260 265 270
 Met Asp Phe Leu Ala Asp Arg Gly Val Asp Asn Thr Phe Ala Asp Glu
 275 280 285
 Leu Val Glu Leu Ser Thr Ala Leu Glu His Gln Glu Tyr Ile Thr Phe
 290 295 300
 Leu Glu Asp Leu Lys Ser Phe Val Lys Ser Gln
 305 310 315

<210> 601

<211> 167

<212> PRT

<213> Homo sapiens

<400> 601

606

Gly Arg Gly Ser Ala Lys Lys Arg Pro Leu Pro Leu Val Gly Ile Gly
 1 5 10 15
 Met Ser Lys Asn Thr Val Ser Ser Ala Arg Phe Arg Lys Val Asp Val
 20 25 30
 Asp Glu Tyr Asp Glu Asn Lys Phe Val Asp Glu Glu Asp Gly Gly Asp
 35 40 45
 Gly Gln Ala Gly Pro Asp Glu Gly Glu Val Asp Ser Cys Leu Arg Gln
 50 55 60
 Gly Asn Met Thr Ala Ala Leu Gln Ala Ala Leu Lys Asn Pro Pro Ile
 65 70 75 80
 Asn Thr Lys Ser Gln Ala Val Lys Asp Arg Ala Gly Ser Ile Val Leu
 85 90 95
 Lys Val Leu Ile Ser Phe Lys Ala Asn Asp Ile Glu Lys Ala Val Gln
 100 105 110
 Ser Leu Asp Lys Asn Gly Val Asp Leu Leu Met Lys Tyr Ile Tyr Lys
 115 120 125
 Gly Phe Glu Ser Pro Ser Asp Asn Ser Ser Ala Met Leu Leu Gln Trp
 130 135 140
 His Glu Lys Ala Leu Ala Ala Gly Gly Val Gly Ser Ile Val Arg Val
 145 150 155 160
 Leu Thr Ala Arg Lys Thr Val
 165

<210> 602

<211> 78

<212> PRT

<213> Homo sapiens

<400> 602

Leu Cys Phe Cys Leu Pro Pro Asp Tyr Leu Tyr Cys Gly Phe Lys Tyr
 1 5 10 15
 Ala Thr Phe Ser Gln His Pro Ile Ile Met Ala Pro Gln Phe Ile Cys
 20 25 30
 Gly His Pro Gly Phe Arg Ala Arg Ser Leu Ala Leu Tyr Lys Cys Ile
 35 40 45
 His Lys Ile Ser Glu Leu Val Gly His Glu His Gln Thr Phe Val Pro

607

50 55 60
 Leu Ile Trp Leu Cys Leu Glu Lys Thr Ala Asn Gln Lys Glu
 65 70 75

 <210> 603
 <211> 47
 <212> PRT
 <213> Homo sapiens

 <400> 603
 Ala His Ala Ser Ala Trp Leu Leu Ser Glu Lys Lys Gly Val Trp Gly
 1 5 10 15
 Val Phe Tyr Lys Ala Ala Val Ile Gly Thr Arg Leu His Ala Ala Val
 20 25 30
 Ala Ile Ala Cys Val Val Met Ala Phe Tyr Val Leu Phe Ile Lys
 35 40 45

 <210> 604
 <211> 227
 <212> PRT
 <213> Homo sapiens

 <400> 604
 Val Gly Gly Ala Ser Arg Leu Leu Leu Arg Ile Ser Val Asp Leu Met
 1 5 10 15
 Glu Ala Lys Thr Leu Gly Thr Val Thr Pro Arg Lys Pro Val Leu Ser
 20 25 30
 Val Ser Ala Arg Lys Ile Lys Asp Asn Ala Ala Asp Trp His Asn Leu
 35 40 45
 Ile Leu Lys Trp Glu Thr Leu Asn Asp Ala Gly Phe Thr Thr Ala Asn
 50 55 60
 Asn Ile Ala Asn Leu Lys Ile Ser Leu Leu Asn Lys Asp Lys Ile Glu
 65 70 75 80
 Leu Asp Ser Ser Ser Pro Ala Ser Lys Glu Asn Glu Glu Lys Val Cys
 85 90 95
 Leu Glu Tyr Asn Glu Glu Leu Glu Lys Leu Cys Glu Glu Leu Gln Ala
 100 105 110

608

Thr Leu Asp Gly Leu Thr Lys Ile Gln Val Lys Met Glu Lys Leu Ser
 115 120 125

Ser Thr Thr Lys Gly Ile Cys Glu Leu Glu Asn Tyr His Tyr Gly Glu
 130 135 140

Glu Ser Lys Arg Pro Pro Leu Phe His Thr Trp Pro Thr Thr His Phe
 145 150 155 160

Tyr Glu Val Ser His Lys Leu Leu Glu Met Tyr Arg Lys Glu Leu Leu
 165 170 175

Leu Lys Arg Thr Val Ala Lys Glu Leu Ala His Thr Gly Asp Pro Asp
 180 185 190

Leu Thr Leu Ser Tyr Leu Ser Met Trp Leu His Gln Pro Tyr Val Glu
 195 200 205

Ser Asp Ser Arg Leu His Leu Glu Ser Met Leu Leu Glu Thr Gly His
 210 215 220

Arg Ala Leu
 225

<210> 605

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 605

Asn Glu Ile His Trp Ala Ala Val His Trp Ala Arg Pro Cys Ser Ser
 1 5 10 15

Gly Gly Phe His Asp Ala Ser His Ile Gln Cys Phe Pro Ser Lys Pro

609

[illegible]

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<210> 606
<211> 406
<212> PRT
<213> Homo sapiens
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<400> 606
Val Val Arg Leu Gln Arg Leu Phe Pro Gly Arg Thr Met Asp Ser Gln
  1                      5                      10                      15
Gly Arg Lys Val Val Val Cys Asp Asn Gly Thr Gly Phe Val Lys Cys
          20                      25                      30
Gly Tyr Ala Gly Ser Asn Phe Pro Glu His Ile Phe Pro Ala Leu Val
          35                      40                      45
Gly Arg Pro Ile Ile Arg Ser Thr Thr Lys Val Gly Asn Ile Glu Ile
          50                      55                      60
Lys Asp Leu Met Val Gly Asp Glu Ala Ser Glu Leu Arg Ser Met Leu
  65                      70                      75                      80
Glu Val Asn Tyr Pro Met Glu Asn Gly Ile Val Arg Asn Trp Asp Asp
          85                      90                      95
Met Lys His Leu Trp Asp Tyr Thr Phe Gly Pro Glu Lys Leu Asn Ile
          100                      105                      110
Asp Thr Arg Asn Cys Lys Ile Leu Leu Thr Glu Pro Pro Met Asn Pro
          115                      120                      125

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Thr	Lys	Asn	Arg	Glu	Lys	Ile	Val	Glu	Val	Met	Phe	Glu	Thr	Tyr	Gln
130						135					140				
Phe	Ser	Gly	Val	Tyr	Val	Ala	Ile	Gln	Ala	Val	Leu	Thr	Leu	Tyr	Ala
145					150					155					160
Gln	Gly	Leu	Leu	Thr	Gly	Val	Val	Val	Asp	Ser	Gly	Asp	Gly	Val	Thr
				165					170					175	
His	Ile	Cys	Pro	Val	Tyr	Glu	Gly	Phe	Ser	Leu	Pro	His	Leu	Thr	Arg
			180					185					190		
Arg	Leu	Asp	Ile	Ala	Gly	Arg	Asp	Ile	Thr	Arg	Tyr	Leu	Ile	Lys	Leu
		195					200					205			
Leu	Leu	Leu	Arg	Gly	Tyr	Ala	Phe	Asn	His	Ser	Ala	Asp	Phe	Glu	Thr
	210					215					220				
Val	Arg	Met	Ile	Lys	Glu	Lys	Leu	Cys	Tyr	Val	Gly	Tyr	Asn	Ile	Glu
225					230					235					240
Gln	Glu	Gln	Lys	Leu	Ala	Leu	Glu	Thr	Thr	Val	Leu	Val	Glu	Ser	Tyr
				245					250					255	
Thr	Leu	Pro	Asp	Gly	Arg	Ile	Ile	Lys	Val	Gly	Gly	Glu	Arg	Phe	Glu
			260					265					270		
Ala	Pro	Glu	Ala	Leu	Phe	Gln	Pro	His	Leu	Ile	Asn	Val	Glu	Gly	Val
		275					280					285			
Gly	Val	Ala	Glu	Leu	Leu	Phe	Asn	Thr	Ile	Gln	Ala	Ala	Asp	Ile	Asp
	290					295					300				
Thr	Arg	Ser	Glu	Phe	Tyr	Lys	His	Ile	Val	Leu	Ser	Gly	Gly	Ser	Thr
305					310					315					320
Met	Tyr	Pro	Gly	Leu	Pro	Ser	Arg	Leu	Glu	Arg	Glu	Leu	Lys	Gln	Leu
				325					330					335	
Tyr	Leu	Glu	Arg	Val	Leu	Lys	Gly	Asp	Val	Glu	Lys	Leu	Ser	Lys	Phe
			340					345					350		
Lys	Ile	Arg	Ile	Glu	Asp	Pro	Pro	Arg	Arg	Lys	His	Met	Val	Phe	Leu
		355					360					365			
Gly	Gly	Ala	Val	Leu	Ala	Asp	Ile	Met	Lys	Asp	Lys	Asp	Asn	Phe	Trp
	370					375					380				
Met	Thr	Arg	Gln	Glu	Tyr	Gln	Glu	Lys	Gly	Val	Arg	Val	Leu	Glu	Lys
385					390					395					400

Leu Gly Val Thr Val Arg
405

<210> 607

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 607

Gly Ser Gly Gly Asn His Ser Val Cys Cys Asp Thr Met Glu Gly Gly
1 5 10 15

Gly Gly Ser Gly Asn Lys Thr Thr Gly Gly Leu Ala Gly Phe Phe Gly
20 25 30

Ala Gly Gly Xaa Gly Tyr Ser His Ala Asp Leu Ala Gly Val Pro Leu
35 40 45

Thr Gly Met Asn Pro Leu Ser Pro Tyr Leu Asn Val Asp Pro Arg Tyr
50 55 60

Leu Val Gln Asp Thr Asp Glu Phe Ile Leu Pro Thr Gly Ala Asn Lys
65 70 75 80

Thr Arg Gly Arg Phe Glu Leu Ala Phe Phe Thr Ile Gly Gly Cys Cys
85 90 95

Met Thr Gly Ala Ala Phe Gly Ala Met Asn Gly Leu Arg Leu Gly Leu
100 105 110

Lys Glu Thr Gln Asn Met Ala Trp Ser Lys Pro Arg Asn Val Gln Ile
115 120 125

Leu Asn Met Val Thr Arg Gln Gly Ala Leu Trp Ala Asn Thr Leu Gly
130 135 140

Ser Leu Ala Leu Leu Tyr Ser Ala Phe Gly Val Ile Ile Glu Lys Thr
145 150 155 160

Arg Gly Ala Glu Asp Asp Leu Asn Thr Val Ala Ala Gly Thr Met Thr
165 170 175

Gly Met Leu Tyr Lys Cys Thr Gly Gly Leu Arg Gly Ile Ala Arg Gly

```
<210> 608
<211> 77
<212> PRT
<213> Homo sapiens
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```

<400> 608
Gln Asn Ala Gly Ile Thr Gly Val Ser Tyr His Ala His Leu Phe Ile
  1             5             10             15
Tyr Leu Phe Ile Tyr Leu Phe Leu Arg Leu Arg Phe Lys Lys Lys Thr
      20             25             30
Lys Lys Thr Lys Pro Lys Asn Lys Lys Thr His Gln Leu Asp Ile Leu
      35             40             45
Glu Ala Phe Pro Asp Ser Gly Leu Val Ser Arg Leu Ala Phe Lys Arg
      50             55             60
Lys Ser Cys Pro Tyr Arg Phe Pro Asp Leu Ser Tyr Pro
      65             70             75

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```
<210> 609
<211> 297
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
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```

<400> 609
Pro Thr Glu Thr Gly His Trp Thr Gly Ser Ala Met Arg Leu Leu Pro
  1             5             10             15
Arg Leu Leu Leu Leu Leu Leu Leu Val Phe Pro Ala Thr Val Leu Phe
      20             25             30
Arg Gly Gly Pro Arg Gly Xaa Leu Ala Val Ala Gln Asp Leu Thr Glu

```

35	40	45																	
Asp	Glu	Glu	Thr	Val	Glu	Asp	Ser	Ile	Ile	Glu	Asp	Glu	Asp	Asp	Glu				
50						55					60								
Ala	Glu	Val	Glu	Glu	Asp	Glu	Pro	Thr	Asp	Leu	Val	Glu	Asp	Lys	Glu				
65					70					75					80				
Glu	Glu	Asp	Val	Ser	Gly	Glu	Pro	Glu	Ala	Ser	Pro	Ser	Ala	Asp	Thr				
				85					90					95					
Thr	Ile	Leu	Phe	Val	Lys	Gly	Glu	Asp	Phe	Pro	Ala	Asn	Asn	Ile	Val				
			100					105					110						
Lys	Phe	Leu	Val	Gly	Phe	Thr	Asn	Lys	Gly	Thr	Glu	Asp	Phe	Ile	Val				
	115						120					125							
Glu	Ser	Leu	Asp	Ala	Ser	Phe	Arg	Tyr	Pro	Gln	Asp	Tyr	Gln	Phe	Tyr				
130						135					140								
Ile	Gln	Asn	Phe	Thr	Ala	Leu	Pro	Leu	Asn	Thr	Val	Val	Pro	Pro	Gln				
145					150					155					160				
Arg	Gln	Ala	Thr	Phe	Glu	Tyr	Ser	Phe	Ile	Pro	Ala	Glu	Pro	Met	Gly				
			165						170					175					
Gly	Arg	Pro	Phe	Gly	Leu	Val	Ile	Asn	Leu	Asn	Tyr	Lys	Asp	Leu	Asn				
			180					185					190						
Gly	Asn	Val	Phe	Gln	Asp	Ala	Val	Phe	Asn	Gln	Thr	Val	Thr	Val	Ile				
	195						200					205							
Glu	Arg	Glu	Asp	Gly	Leu	Asp	Gly	Glu	Thr	Ile	Phe	Met	Tyr	Met	Phe				
210					215						220								
Leu	Ala	Gly	Leu	Gly	Leu	Leu	Val	Ile	Val	Gly	Leu	His	Gln	Leu	Leu				
225					230					235					240				
Glu	Ser	Arg	Lys	Arg	Lys	Arg	Pro	Ile	Gln	Lys	Val	Glu	Met	Gly	Thr				
			245						250					255					
Ser	Ser	Gln	Asn	Asp	Val	Asp	Met	Ser	Trp	Ile	Pro	Gln	Glu	Thr	Leu				
		260						265					270						
Asn	Gln	Ile	Asn	Lys	Ala	Ser	Pro	Arg	Arg	Leu	Pro	Arg	Lys	Arg	Ala				
	275						280					285							
Gln	Lys	Arg	Ser	Val	Gly	Ser	Asp	Glu											
290						295													

614

<210> 610
 <211> 162
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 610
 Arg Xaa Thr Arg Pro Cys Glu Asp Gly Ala Leu Gln Gly Val Leu Gly
 1 5 10 15
 Ser Val Gly Cys Val Gly Leu Gly Ser His Pro Trp Thr Phe Cys His
 20 25 30
 Pro Glu Leu Gln Leu Gly Arg Ser Gly Leu Ala Trp Gly Ala Pro Arg
 35 40 45
 Ser Ser Lys Leu His Leu Ser Pro Lys Ala Asp Val Lys Asn Leu Met
 50 55 60
 Ser Tyr Val Val Thr Lys Thr Lys Ala Ile Asn Gly Lys Tyr His Arg
 65 70 75 80
 Phe Leu Gly Arg His Phe Pro Arg Phe Tyr Xaa Leu Tyr Thr Ile Phe
 85 90 95
 Met Lys Glu Ser Leu Glu Pro Gly His Ala Ser His Ile Leu Pro Ala
 100 105 110
 Ser Ser Leu Val Glu Thr Ser Phe Glu Asp Ser Tyr Asn Cys Asp Ser
 115 120 125
 Pro Thr Gly Gln Gly Phe Gly Lys Ala Gly Asp Trp Pro Ala Asp Cys
 130 135 140
 Ser Gly Ser Lys Ile Gly Leu Leu Ser Pro Trp Pro Glu Phe Tyr Ala
 145 150 155 160
 Tyr Trp

615

<210> 611
 <211> 351
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (307)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (335)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 611
 Glu Met Trp Leu Leu Tyr Leu Leu Val Pro Ala Leu Phe Cys Arg Ala
 1 5 10 15
 Gly Gly Ser Ile Pro Ile Pro Gln Lys Leu Phe Gly Glu Val Thr Ser
 20 25 30
 Pro Leu Phe Pro Lys Pro Tyr Pro Asn Asn Phe Glu Thr Thr Thr Val
 35 40 45
 Ile Thr Val Pro Thr Gly Tyr Arg Val Lys Leu Val Phe Gln Gln Phe
 50 55 60
 Asp Leu Glu Pro Ser Glu Gly Cys Phe Tyr Asp Tyr Val Lys Ile Ser
 65 70 75 80
 Ala Asp Lys Lys Ser Leu Gly Arg Phe Cys Gly Gln Leu Gly Ser Pro
 85 90 95
 Leu Gly Asn Pro Pro Gly Lys Lys Glu Phe Met Ser Gln Gly Asn Lys
 100 105 110
 Met Leu Leu Thr Phe His Thr Asp Phe Ser Asn Glu Glu Asn Gly Thr
 115 120 125
 Ile Met Phe Tyr Lys Gly Phe Leu Ala Tyr Tyr Gln Ala Val Asp Leu
 130 135 140
 Asp Glu Cys Ala Ser Arg Ser Lys Ser Gly Glu Glu Asp Pro Gln Pro
 145 150 155 160
 Gln Cys Gln His Leu Cys His Asn Tyr Val Gly Gly Tyr Phe Cys Ser
 165 170 175
 Cys Arg Pro Gly Tyr Glu Leu Gln Glu Asp Arg His Ser Cys Gln Ala

616

			180					185					190				
Glu	Cys	Ser	Ser	Glu	Leu	Tyr	Thr	Glu	Ala	Ser	Gly	Tyr	Ile	Ser	Ser		
			195			200						205					
Leu	Glu	Tyr	Pro	Arg	Ser	Tyr	Pro	Pro	Asp	Leu	Arg	Cys	Asn	Tyr	Ser		
			210			215						220					
Ile	Arg	Val	Glu	Arg	Gly	Leu	Thr	Leu	His	Leu	Lys	Phe	Leu	Glu	Pro		
225			230						235			240					
Phe	Asp	Ile	Asp	Asp	His	Gln	Gln	Val	His	Cys	Pro	Tyr	Asp	Gln	Leu		
			245						250			255					
Gln	Ile	Tyr	Ala	Asn	Gly	Lys	Asn	Ile	Gly	Glu	Phe	Cys	Gly	Lys	Gln		
			260			265						270					
Arg	Pro	Pro	Asp	Leu	Asp	Thr	Ser	Ser	Asn	Ala	Val	Asp	Leu	Leu	Phe		
			275			280						285					
Phe	Thr	Asp	Glu	Ser	Gly	Asp	Ser	Arg	Gly	Trp	Lys	Leu	Arg	Tyr	Thr		
290						295						300					
Thr	Glu	Xaa	His	Gln	Val	Pro	Pro	Ala	Gln	Asp	Pro	Arg	Arg	Ser	Ser		
305			310						315			320					
Pro	Ser	Ser	Arg	Thr	Cys	Ser	Leu	Gln	Leu	Pro	Ser	Phe	Arg	Xaa	Leu		
			325						330			335					
Ile	Cys	Ile	Cys	Phe	Thr	Trp	Gln	Gly	Lys	Ala	Tyr	Pro	Val	Pro			
			340			345						350					

$\langle 210 \rangle$ 612

<211> 449

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (284)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 612

Ile Tyr Ala Asn Gly Lys Asn Ile Gly Glu Phe Cys Gly Lys Gln Arg

617

1	5	10	15
Xaa Pro Asp	Leu Asp Thr Ser Ser Asn	Ala Val Asp Leu Leu Phe Phe	
	20	25	30
Thr Asp Glu	Ser Gly Asp Ser Arg Gly Trp Lys Leu Arg Tyr Thr Thr		
	35	40	45
Glu Ile Ile	Lys Cys Pro Gln Pro Lys Thr Leu Asp Glu Phe Thr Ile		
	50	55	60
Ile Gln Asn	Leu Gln Pro Gln Tyr Gln Phe Arg Asp Tyr Phe Ile Ala		
	65	70	75
Thr Cys Lys	Gln Gly Tyr Gln Leu Ile Glu Gly Asn Gln Val Leu His		
	85	90	95
Ser Phe Thr	Ala Val Cys Gln Asp Asp Gly Thr Trp His Arg Ala Met		
	100	105	110
Pro Arg Cys	Lys Ile Lys Asp Cys Gly Gln Pro Arg Asn Leu Pro Asn		
	115	120	125
Gly Asp Phe	Arg Tyr Thr Thr Thr Met Gly Val Asn Thr Tyr Lys Ala		
	130	135	140
Arg Ile Gln	Tyr Tyr Cys His Glu Pro Tyr Tyr Lys Met Gln Thr Arg		
	145	150	155
Ala Gly Ser	Arg Glu Ser Glu Gln Gly Val Tyr Thr Cys Thr Ala Gln		
	165	170	175
Gly Ile Trp	Lys Asn Glu Gln Lys Gly Glu Lys Ile Pro Arg Cys Leu		
	180	185	190
Pro Val Cys	Gly Lys Pro Val Asn Pro Val Glu Gln Arg Gln Arg Ile		
	195	200	205
Ile Gly Gly	Gln Lys Ala Lys Met Gly Asn Phe Pro Trp Gln Val Phe		
	210	215	220
Thr Asn Ile	His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp		
	225	230	235
Ile Leu Thr	Ala Ala His Thr Leu Tyr Pro Lys Glu His Glu Ala Gln		
	245	250	255
Ser Asn Ala	Ser Leu Asp Val Phe Leu Gly His Thr Asn Val Glu Glu		
	260	265	270
Leu Met Lys	Leu Gly Asn His Pro Ile Arg Arg Xaa Ser Val His Pro		

618

275	280	285
Asp Tyr Arg Gln Asp Glu Ser Tyr Asn Phe Glu Gly Asp Ile Ala Leu		
290	295	300
Leu Glu Leu Glu Asn Ser Val Thr Leu Gly Pro Asn Leu Leu Pro Ile		
305	310	315 320
Cys Leu Pro Asp Asn Asp Thr Phe Tyr Asp Leu Gly Leu Met Gly Tyr		
	325 330	335
Val Ser Gly Phe Gly Val Met Glu Glu Lys Ile Ala His Asp Leu Arg		
	340 345	350
Phe Val Arg Leu Pro Val Ala Asn Pro Gln Ala Cys Glu Asn Trp Leu		
	355 360	365
Arg Gly Lys Asn Arg Met Asp Val Phe Ser Gln Asn Met Phe Cys Ala		
	370 375	380
Gly His Pro Ser Leu Lys Gln Asp Ala Cys Gln Gly Asp Ser Gly Gly		
385	390 395	400
Val Phe Ala Val Arg Asp Pro Asn Thr Asp Arg Trp Val Ala Thr Gly		
	405 410	415
Ile Val Ser Trp Gly Ile Gly Cys Ser Arg Gly Tyr Gly Phe Tyr Thr		
	420 425	430
Lys Val Leu Asn Tyr Val Asp Trp Ile Lys Lys Glu Met Glu Glu Glu		
	435 440	445

Asp

<210> 613

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

619

<400> 613

```

Asp Pro Lys Tyr Arg Lys Trp Ala Trp Glu Ala Val Glu Ala Leu Glu
 1             5             10             15

Asn His Cys Arg Val Asn Gly Gly Tyr Ser Gly Leu Arg Asp Val Tyr
      20             25             30

Leu Leu His Glu Ser Tyr Asp Asp Val Gln Gln Ser Phe Phe Leu Ala
      35             40             45

Glu Thr Leu Lys Tyr Leu Tyr Leu Ile Phe Ser Asp Xaa Asp Xaa Leu
      50             55             60

Pro Leu Glu His Trp Ile Phe Asn Ser Glu Ala His Leu Leu Pro Ile
      65             70             75             80

Leu Pro Lys Asp Lys Lys Glu Val Glu Ile Arg Glu Glu
      85             90

```

<210> 614

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 614

```

Ser Leu Asn Pro Met Glu Lys Thr Gln Glu Thr Val Gln Arg Ile Leu
 1             5             10             15

Leu Glu Pro Tyr Lys Tyr Leu Leu Gln Leu Pro Gly Lys Gln Val Arg
      20             25             30

Thr Lys Leu Ser Gln Ala Phe Asn His Trp Leu Lys Val Pro Glu Asp
      35             40             45

Lys Leu Gln Ile Ile Ile Glu Val Thr Glu Met Leu His Asn Ala Ser
      50             55             60

Leu Leu Ile Asp Asp Ile Glu Asp Asn Ser Lys Leu Arg Arg Gly Phe

```

620

65					70											75													80
Pro	Val	Ala	His	Ser	Ile	Tyr	Gly	Ile	Pro	Ser	Val	Ile	Asn	Ser	Ala														
				85					90					95															
Asn	Tyr	Val	Tyr	Phe	Leu	Gly	Leu	Glu	Lys	Val	Leu	Thr	Leu	Asp	His														
			100					105					110																
Pro	Asp	Ala	Val	Lys	Leu	Phe	Thr	Arg	Gln	Leu	Leu	Glu	Leu	His	Gln														
		115					120					125																	
Gly	Gln	Gly	Leu	Asp	Ile	Tyr	Trp	Arg	Asp	Asn	Tyr	Thr	Cys	Pro	Thr														
	130					135					140																		
Glu	Glu	Glu	Tyr	Lys	Ala	Met	Val	Leu	Gln	Lys	Thr	Gly	Gly	Leu	Phe														
145					150					155																			
Gly	Leu	Ala	Val	Gly	Leu	Met	Gln	Leu	Phe	Ser	Asp	Tyr	Lys	Glu	Asp														
				165				170					175																
Leu	Lys	Pro	Leu	Leu	Asn	Thr	Leu	Gly	Leu	Phe	Phe	Gln	Ile	Arg	Asp														
			180					185					190																
Asp	Tyr	Ala	Asn	Leu	His	Ser	Lys	Glu	Tyr	Ser	Glu	Asn	Lys	Ser	Xaa														
		195					200					205																	
Cys	Glu	Asp	Leu	Thr	Glu	Gly	Lys	Phe	Ser	Phe	Pro	Thr	Ile	His	Ala														
	210					215					220																		
Ile	Trp	Ser	Arg	Xaa	Glu	Ser	Thr	Gln	Val	Gln	Asn	Ile	Leu	Arg	Gln														
225					230					235																			
Arg	Thr	Glu	Asn	Ile	Asp	Ile	Lys	Lys	Tyr	Cys	Val	His	Tyr	Leu	Glu														
			245						250				255																
Asp	Val	Gly	Ser	Phe	Glu	Tyr	Thr	Arg	Asn	Thr	Leu	Lys	Glu	Leu	Glu														
			260					265					270																
Ala	Lys	Ala	Tyr	Lys	Gln	Ile	Asp	Ala	Arg	Gly	Gly	Asn	Pro	Glu	Leu														
		275					280					285																	
Val	Ala	Leu	Val	Lys	His	Leu	Ser	Lys	Met	Phe	Lys	Glu	Glu	Asn	Glu														
	290					295					300																		

<210> 615

<211> 171

621

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 615

Ser Cys Gly Pro Arg Gly Leu Ala Ser Leu Gly Leu Gly Phe Ser Gly
 1 5 10 15

Arg Cys Asp Asp Gln Asn Lys Gly Arg Ser Arg Arg Ala Arg Gly Ser
 20 25 30

Gly Gly Gly Val Phe Arg Gly Ala His Leu Pro Gly Ala Ala Gly Gln
 35 40 45

Pro Glu Pro His Arg Ala Xaa Leu Ala Ser Arg Arg Leu Thr Arg Lys
 50 55 60

Leu Tyr Lys Cys Ile Lys Lys Ala Val Lys Gln Lys Gln Ile Arg Arg
 65 70 75 80

Gly Val Lys Glu Val Gln Lys Phe Val Asn Lys Gly Glu Lys Gly Ile
 85 90 95

Met Val Leu Ala Gly Asp Thr Leu Pro Ile Glu Val Tyr Cys His Leu
 100 105 110

Pro Val Met Cys Glu Asp Arg Asn Leu Pro Tyr Val Tyr Ile Pro Ser
 115 120 125

Lys Thr Asp Leu Gly Ala Ala Ala Ala Pro Lys Arg Pro Thr Cys Val
 130 135 140

Ile Met Val Lys Pro His Glu Glu Tyr Gln Glu Ala Tyr Asp Glu Cys
 145 150 155 160

Leu Glu Glu Val Gln Ser Leu Pro Leu Pro Leu
 165 170

<210> 616

<211> 55

<212> PRT

<213> Homo sapiens

<400> 616

Phe Asn Ile Pro Leu His Gln Ile Asn Gln Val Tyr Arg Gln Gly Pro

622

1 5 10 15
 Thr Gly Ile His Ile Leu Val Ser Asp Gln Met Val Gln Asn Phe Gln
 20 25 30
 Asp Glu Ser Cys Phe Leu Phe Ser Thr Val Lys Ala Glu Ser Ser Asp
 35 40 45
 Gly Ile His Ile Ile Leu Lys
 50 55

<210> 617
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 617
 Gly Val Arg Leu Arg Glu Asp Asp Arg Arg Val Trp Ser Thr Gly Pro
 1 5 10 15
 Pro Arg Val Trp Gly Ala Asp Arg Ser Thr Leu Arg Ala Val Met Ser
 20 25 30
 Ala Ser Val Val Ser Val Ile Ser Arg Phe Leu Glu Glu Tyr Leu Ser
 35 40 45
 Ser Thr Pro Gln Arg Leu Lys Leu Leu Asp Ala Tyr Leu Leu Tyr Ile
 50 55 60
 Leu Leu Thr Gly Ala Leu Gln Phe Gly Tyr Cys Leu Leu Val Gly Thr
 65 70 75 80
 Phe Pro Phe Asn Ser Phe Leu Ser Gly Phe Ile Ser Cys Val Gly Ser
 85 90 95
 Phe Ile Leu Ala Val Cys Leu Arg Ile Gln Ile Asn Pro Gln Asn Lys
 100 105 110
 Ala Asp Phe Gln Gly Ile Ser Pro Glu Arg Ala Phe Ala Asp Phe Leu
 115 120 125
 Phe Ala Ser Thr Ile Leu His Leu Val Val Met Asn Phe Val Gly
 130 135 140

<210> 618
 <211> 376
 <212> PRT

623

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 618

Ala	Ala	Gly	Asp	Arg	Asp	Cys	Arg	Pro	Ala	Ser	Gly	Gly	Asn	Pro	Ser
1				5					10					15	
Val	Ile	Arg	Lys	Xaa	Tyr	Asn	Leu	Thr	Ser	Gln	Asp	Val	Gly	Ser	Gly
			20					25					30		
Thr	Ser	Asn	Asn	Ser	Gln	Ala	Cys	Ala	Gln	Phe	Leu	Glu	Gln	Tyr	Phe
		35					40					45			
His	Asp	Ser	Asp	Leu	Ala	Gln	Phe	Met	Arg	Leu	Phe	Gly	Gly	Asn	Phe
	50					55					60				
Ala	His	Gln	Ala	Ser	Val	Ala	Arg	Val	Val	Gly	Gln	Gln	Gly	Arg	Gly
65					70					75					80
Arg	Ala	Gly	Ile	Glu	Ala	Ser	Leu	Asp	Val	Gln	Tyr	Leu	Met	Ser	Ala
				85					90					95	
Gly	Ala	Asn	Ile	Ser	Thr	Trp	Val	Tyr	Ser	Ser	Pro	Gly	Arg	His	Glu
		100						105					110		
Gly	Gln	Glu	Pro	Phe	Leu	Gln	Trp	Leu	Met	Leu	Leu	Ser	Asn	Glu	Ser
		115					120					125			
Ala	Leu	Pro	His	Val	His	Thr	Val	Ser	Tyr	Gly	Asp	Asp	Glu	Asp	Ser
	130					135					140				
Leu	Ser	Ser	Ala	Tyr	Ile	Gln	Arg	Val	Asn	Thr	Glu	Leu	Met	Lys	Ala
145					150					155					160
Ala	Ala	Arg	Gly	Leu	Thr	Leu	Leu	Phe	Ala	Ser	Gly	Asp	Ser	Gly	Ala
				165					170					175	
Gly	Cys	Trp	Ser	Val	Ser	Gly	Arg	His	Gln	Phe	Arg	Pro	Thr	Phe	Pro
			180					185					190		
Ala	Ser	Ser	Pro	Tyr	Val	Thr	Thr	Val	Gly	Gly	Thr	Ser	Phe	Gln	Glu
		195					200					205			
Pro	Phe	Leu	Ile	Thr	Asn	Glu	Ile	Val	Asp	Tyr	Ile	Ser	Gly	Gly	Gly
	210					215					220				
Phe	Ser	Asn	Val	Phe	Pro	Arg	Pro	Ser	Tyr	Gln	Glu	Glu	Ala	Val	Thr

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (214)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle$ (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 619

Arg Gly Gly Gly Ser Pro Gly Val Arg Ser Ala Asp Thr Pro Gly His
1 5 10 15

Arg Ala Pro Gly His Arg Ala Ala Gly Pro Ser Pro Gln Ser Asn Ala

625

20										25					30															
Asp	Ala	Ala	Gly	Asn	Pro	Leu	Leu	Leu	Ser	His	Thr	Leu	Gln	Glu	Leu															
			35						40						45															
Leu	Ala	Arg	Asp	Thr	Val	Gln	Val	Glu	Leu	Ile	Pro	Glu	Lys	Lys	Gly															
			50					55						60																
Leu	Phe	Leu	Lys	His	Val	Glu	Tyr	Glu	Val	Ser	Ser	Gln	Arg	Phe	Lys															
			65					70					75		80															
Ser	Ser	Val	Tyr	Arg	Arg	Tyr	Asn	Asp	Phe	Val	Val	Phe	Gln	Glu	Met															
					85					90					95															
Leu	Leu	His	Lys	Phe	Pro	Tyr	Arg	Met	Val	Pro	Ala	Leu	Pro	Pro	Lys															
			100						105					110																
Arg	Met	Leu	Gly	Ala	Asp	Arg	Glu	Phe	Ile	Glu	Ala	Arg	Arg	Arg	Ala															
			115						120					125																
Leu	Lys	Arg	Phe	Val	Asn	Leu	Val	Ala	Arg	His	Pro	Leu	Phe	Ser	Glu															
			130					135					140																	
Asp	Val	Val	Leu	Lys	Leu	Phe	Leu	Ser	Phe	Ser	Gly	Ser	Asp	Val	Gln															
			145					150				155			160															
Asn	Lys	Leu	Lys	Glu	Ser	Ala	Gln	Cys	Val	Gly	Asp	Glu	Phe	Leu	Asn															
					165					170					175															
Cys	Lys	Leu	Ala	Thr	Arg	Ala	Lys	Asp	Phe	Leu	Pro	Ala	Asp	Ile	Gln															
			180						185					190																
Ala	Gln	Phe	Ala	Ile	Ser	Arg	Glu	Leu	Ile	Arg	Asn	Ile	Tyr	Asn	Ser															
			195					200					205																	
Phe	His	Lys	Leu	Arg	Xaa	Arg	Ala	Glu	Arg	Ile	Xaa	Arg	Gly	His	Arg															
			210					215					220																	
Gln	Cys	Gly	Arg	Ser	Ser	His	Ile	Arg	Glu	Gly	Ala	Lys	Cys	Asn	Arg															
			225					230					235		240															

Val

<210> 620

<211> 305

<212> PRT

<213> Homo sapiens

626

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 620

Thr	Phe	Asn	Glu	Arg	Ser	Gly	Arg	Ile	Glu	Arg	Ser	Asn	Arg	Ser	Leu
1				5					10					15	

Pro	Cys	Ala	Xaa	Leu	Glu	Asp	Asn	Leu	Phe	Glu	Trp	His	Phe	Thr	Val
			20					25					30		

Arg	Gly	Pro	Pro	Asp	Ser	Asp	Phe	Asp	Gly	Gly	Val	Tyr	His	Gly	Arg
		35					40					45			

Ile	Val	Leu	Pro	Pro	Glu	Tyr	Pro	Met	Lys	Pro	Pro	Ser	Ile	Ile	Leu
	50					55						60			

Leu	Thr	Ala	Asn	Gly	Arg	Phe	Glu	Val	Gly	Lys	Lys	Ile	Cys	Leu	Ser
65					70					75					80

Ile	Ser	Gly	His	His	Pro	Glu	Thr	Trp	Gln	Pro	Ser	Trp	Ser	Ile	Arg
				85					90					95	

Thr	Ala	Leu	Leu	Ala	Ile	Ile	Gly	Phe	Met	Pro	Thr	Lys	Gly	Glu	Gly
			100					105						110	

Ala	Ile	Gly	Ser	Leu	Asp	Tyr	Thr	Pro	Glu	Glu	Arg	Arg	Ala	Leu	Ala
		115					120					125			

Lys	Lys	Ser	Gln	Asp	Phe	Cys	Cys	Glu	Gly	Cys	Gly	Ser	Ala	Met	Lys
	130					135					140				

Asp	Val	Leu	Leu	Pro	Leu	Lys	Ser	Gly	Ser	Asp	Ser	Ser	Gln	Ala	Asp
145					150					155					160

Gln	Glu	Ala	Lys	Glu	Leu	Ala	Arg	Gln	Ile	Ser	Phe	Lys	Ala	Glu	Val
				165					170					175	

Asn	Ser	Ser	Gly	Lys	Thr	Ile	Ser	Glu	Ser	Asp	Leu	Asn	His	Ser	Phe
			180					185					190		

Ser	Leu	Thr	Asp	Leu	Gln	Asp	Asp	Ile	Pro	Thr	Thr	Phe	Gln	Gly	Ala
			195				200						205		

Thr	Ala	Ser	Thr	Ser	Tyr	Gly	Xaa	Gln	Asn	Ser	Ser	Ala	Ala	Ser	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

627

210 215 220
 His Gln Pro Thr Gln Pro Val Ala Lys Asn Thr Ser Met Ser Pro Arg
 225 230 235 240
 Gln Arg Arg Ala Gln Gln Gln Ser Gln Arg Arg Leu Ser Thr Ser Pro
 245 250 255
 Asp Val Ile Gln Gly His Gln Pro Arg Asp Asn His Thr Asp His Gly
 260 265 270
 Gly Ser Ala Val Leu Ile Val Ile Leu Thr Leu Ala Leu Ala Ala Leu
 275 280 285
 Ile Phe Arg Arg Ile Tyr Leu Ala Asn Glu Tyr Ile Phe Asp Phe Glu
 290 295 300
 Leu
 305

<210> 621
 <211> 160
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 621
 Asp Pro Arg Asp Ser Arg Ser Gly Leu Gly Arg Leu Xaa Gly Pro Trp
 1 5 10 15
 Gln Glu Ala Gly Ser Ser Arg Gly Pro Ser Ser Gly Asp Met Ala Gly
 20 25 30
 Val Lys Ala Leu Val Ala Leu Ser Phe Ser Gly Ala Ile Gly Leu Thr
 35 40 45
 Phe Leu Met Leu Gly Cys Ala Leu Glu Asp Tyr Gly Val Tyr Trp Pro
 50 55 60
 Leu Phe Val Leu Ile Phe His Ala Ile Ser Pro Ile Pro His Phe Ile
 65 70 75 80
 Ala Lys Arg Val Thr Tyr Asp Ser Asp Ala Thr Ser Ser Ala Cys Arg
 85 90 95

628

Glu Leu Ala Tyr Phe Phe Thr Thr Gly Ile Val Val Ser Ala Phe Gly
 100 105 110
 Phe Pro Val Ile Leu Ala Arg Val Ala Val Ile Lys Trp Gly Ala Cys
 115 120 125
 Gly Leu Val Leu Ala Gly Asn Ala Val Ile Phe Leu Thr Ile Gln Gly
 130 135 140
 Phe Phe Leu Ile Phe Gly Arg Gly Asp Asp Phe Ser Trp Glu Gln Trp
 145 150 155 160

<210> 622
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 622
 Pro Cys Cys Leu Val Glu Thr Arg Thr Ile Asp Leu Asn Ile Ala Met
 1 5 10 15
 Val Leu Leu Gln Ser Trp Gln Thr Ala Val Thr Leu Pro Arg Gly Gln
 20 25 30
 Arg Val Leu Ile Leu Cys Gln Gln Arg Cys Thr Thr Ile Thr Met Val
 35 40 45
 Val Thr Tyr Arg Lys Ile Arg Val Ala Pro Ala Ser Cys Met Asp Arg
 50 55 60
 Pro Gly Leu Leu Leu Pro Lys Asp Leu Asp Ile His Lys Asp Thr Gly
 65 70 75 80
 Asp Ile Leu Ala His Gln Leu Ala Glu Ala Glu Ala Glu Gly Tyr His
 85 90 95
 Thr Glu Tyr Leu Phe Phe Leu Arg His Ile Ile Phe Ile Trp Lys Asp
 100 105 110
 Phe Ser Ser Cys Asn Leu Arg Gln Gln Ser Lys Arg Leu Glu
 115 120 125

<210> 623
 <211> 108

629

<212> PRT

<213> Homo sapiens

<400> 623

```

Thr Glu Cys Ser Gly Ser Leu Asn His Cys Phe Ser Phe Glu Ser Arg
 1              5              10              15

Ala Ser Cys His Phe His Val Ala Ser Ala Val Ser Pro Pro Thr Pro
          20              25              30

Leu Cys Ser Pro Ala Thr Leu Met Ala Gln Asp Lys Ala Gly Lys Pro
          35              40              45

Ser Gln Lys His Leu Trp Pro Arg Lys Pro Leu Ser Pro Ser Leu Ser
          50              55              60

His Glu Ala Gln Pro Ser Gln Ala Leu Met Leu Ser Gln Trp Ala Ser
          65              70              75              80

His Arg Ala Lys Glu Gly Leu Phe Ser Val Pro Ser Leu Trp Val Arg
          85              90              95

Thr Arg Gly His Ala Glu Cys Pro Leu Leu Thr Trp
          100              105

```

<210> 624

<211> 385

<212> PRT

<213> Homo sapiens

<400> 624

```

Leu Trp Lys Ser Arg Leu Thr Phe Lys Leu Ala Met Ser Arg Val Pro
 1              5              10              15

Ser Pro Pro Pro Pro Ala Glu Met Ser Ser Gly Pro Val Ala Glu Ser
          20              25              30

Trp Cys Tyr Thr Gln Ile Lys Val Val Lys Phe Ser Tyr Met Trp Thr
          35              40              45

Ile Asn Asn Phe Ser Phe Cys Arg Glu Glu Met Gly Glu Val Ile Lys
          50              55              60

Ser Ser Thr Phe Ser Ser Gly Ala Asn Asp Lys Leu Lys Trp Cys Leu
          65              70              75              80

Arg Val Asn Pro Lys Gly Leu Asp Glu Glu Ser Lys Asp Tyr Leu Ser
          85              90              95

```


Ser Ala Gln Cys Pro Phe Leu Gly Pro Pro Arg Lys Arg Leu Lys Gln
 370 375 380

Ser
 385

<210> 625

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 625

Leu Glu Arg Glu Arg Leu Glu Gln Glu Gln Leu Glu Arg Glu Arg Gln
 1 5 10 15

Glu Arg Glu Arg Gln Glu Arg Leu Glu Arg Gln Glu Arg Leu Glu Arg
 20 25 30

Gln Glu Arg Leu Glu Arg Gln Glu Arg Leu Asp Arg Glu Arg Gln Glu
 35 40 45

Arg Gln Glu Arg Glu Arg Leu Glu Arg Leu Glu Arg Glu Arg Gln Glu
 50 55 60

Arg Glu Arg Gln Glu Gln Leu Glu Arg Glu Gln Leu Glu Trp Glu Arg
 65 70 75 80

Glu Arg Arg Ile Ser Ser Ala Ala Ala Pro Ala Ser Val Glu Thr Pro
 85 90 95

Leu Asn Ser Val Leu Gly Asp Ser Ser Ala Ser Glu Pro Gly Leu Gln
 100 105 110

Ala Ala Ser Gln Pro Ala Glu Thr Pro Ser Gln Xaa Gly Ile Val Leu

115	120	125
Gly Xaa Leu Ala Pro Pro Pro Pro Pro Pro Leu Pro Pro Gly Pro Ala		
130	135	140
Gln Ala Ser Val Ala Leu Pro Pro Pro Pro Glu Lys Xaa Ser Thr Ser		
145	150	155 160
Ser Thr Pro Ile His Arg Ala Ser Thr Ala Pro Pro Pro Pro Pro Leu		
	165	170 175
Pro Asn Gln Val Pro Pro Pro Pro Pro Pro Pro Ala Pro Pro Leu		
	180	185 190
Pro Ala Ser Gly Phe Phe Leu Ala Ser Met Ser Glu Asp Asn Arg Pro		
	195	200 205
Leu Thr Gly Leu Ala Ala Ala Ile Ala Gly Ala Lys Leu Arg Lys Val		
	210	215 220
Ser Arg Met Glu Asp Thr Ser Phe Pro Ser Gly Gly Asn Ala Ile Gly		
225	230	235 240
Val Asn Ser Ala Ser Ser Lys Thr Asp Thr Gly Arg Gly Asn Gly Pro		
	245	250 255
Leu Pro Leu Gly Gly Ser Gly Leu Met Glu Glu Met Ser Ala Leu Leu		
	260	265 270
Ala Arg Arg Arg Arg Ile Ala Glu Lys Gly Ser Thr Ile Glu Thr Glu		
	275	280 285
Gln Lys Glu Asp Lys Gly Glu Asp Ser Glu Pro Val Thr Ser Lys Ala		
	290	295 300
Ser Ser Thr Ser Thr Pro Glu Pro Thr Arg Lys Pro Trp Glu Arg Thr		
305	310	315 320
Asn Thr Met Asn Gly Ser Lys Ser Pro Val Ile Ser Arg Pro Lys Ser		
	325	330 335
Thr Pro Leu Ser Gln Pro Ser Ala Asn Gly Val Gln Thr Glu Gly Leu		
	340	345 350
Asp Tyr Asp Arg Leu Lys Gln Asp Ile Leu Asp Glu Met Arg Lys Glu		
	355	360 365
Leu Thr Lys Leu Lys Glu Glu Leu Ile Asp Ala Ile Arg Gln Glu Leu		
	370	375 380
Ser Lys Ser Asn Thr Ala		

633

385

390

<210> 626

<211> 138

<212> PRT

<213> Homo sapiens

<400> 626

Ser Phe Gly Ala Leu Val Arg Asp Gly Asn Pro Ala Asn Val Ser Arg
 1 5 10 15

Glu Leu Ser Leu Trp Gln Ala Leu Pro Ser Thr Leu Cys Ile Leu Tyr
 20 25 30

Phe Leu Arg Leu Leu Pro Asp Arg Ser Glu Met Ala Glu Val Glu Glu
 35 40 45

Thr Leu Lys Arg Leu Gln Ser Gln Lys Gly Val Gln Gly Ile Ile Val
 50 55 60

Val Asn Thr Glu Gly Ile Pro Ile Lys Ser Thr Met Asp Asn Pro Thr
 65 70 75 80

Thr Thr Gln Tyr Ala Ser Leu Met His Ser Phe Ile Leu Lys Ala Arg
 85 90 95

Ser Thr Val Arg Asp Ile Asp Pro Gln Asn Asp Leu Thr Phe Leu Arg
 100 105 110

Ile Arg Ser Lys Lys Asn Glu Ile Met Val Ala Pro Asp Lys Asp Tyr
 115 120 125

Phe Leu Ile Val Ile Gln Asn Pro Thr Glu
 130 135

<210> 627

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 627

Gln Gly Phe Gly Arg Pro Ser Val Tyr His Ala Ala Ile Val Ile Phe

634

1	5	10	15
Leu Glu Phe Phe Ala Trp Gly Leu Leu Thr Thr Pro Met Leu Thr Val	20	25	30
Leu His Glu Thr Phe Ser Gln His Thr Phe Leu Met Asn Gly Leu Ile	35	40	45
Gln Gly Val Lys Gly Leu Leu Ser Phe Leu Ser Ala Pro Leu Ile Gly	50	55	60
Ala Leu Ser Asp Val Trp Gly Arg Lys Pro Phe Leu Leu Gly Thr Val	65	70	75
Phe Phe Thr Cys Phe Pro Ile Pro Leu Met Arg Ile Ser Pro Trp Trp	85	90	95
Tyr Phe Ala Met Ile Ser Val Ser Gly Val Phe Ser Val Thr Phe Ser	100	105	110
Val Ile Phe Ala Tyr Val Ala Asp Val Thr Gln Glu His Glu Arg Ser	115	120	125
Thr Ala Tyr Gly Trp Val Ser Ala Thr Phe Xaa Ala Ser Leu Val Ser	130	135	140
Ser Pro Ala Ile Gly Ala Tyr Leu Ser Ala Ser Tyr Gly Asp Ser Leu	145	150	155
Val Val Leu Val Ala Thr Val Val Ala Leu Leu Asp Ile Cys Phe Ile	165	170	175
Leu Val Ala Val Pro Glu Ser Leu Pro Glu Lys Met Arg Pro Val Ser	180	185	190
Trp Gly Ala Gln Ile Ser Trp Lys Gln Ala Asp Pro Phe Ala Ser Leu	195	200	205
Lys Lys Val Gly Lys Asp Ser Thr Val Leu Leu Ile Cys Ile Thr Val	210	215	220
Phe Leu Ser Tyr Leu Pro Glu Ala Gly Gln Tyr Ser Ser Phe Phe Leu	225	230	235
Tyr Leu Arg Gln Val Ile Gly Phe Gly Ser Val Lys Ile Ala Ala Phe	245	250	255
Ile Ala Met Val Gly Ile Leu Ser Ile Val Ala Gln Thr Ala Phe Leu	260	265	270
Ser Ile Leu Met Arg Ser Leu Gly Asn Lys Asn Thr Val Leu Leu Gly			

635

275 280 285
 Leu Gly Phe Gln Met Leu Gln Leu Ala Trp Tyr Gly Phe Gly Ser Gln
 290 295 300
 Ala Trp Met Met Trp Ala Ala Gly Thr Val Ala Ala Met Ser Ser Ile
 305 310 315 320
 Thr Phe Pro Ala Ile Ser Ala Leu Val Ser Arg Asn Ala Glu Ser Asp
 325 330 335
 Gln Gln Gly Val Ala Gln Gly Ile Ile Thr Gly Ile Arg Gly Leu Cys
 340 345 350
 Asn Gly Leu Gly Pro Ala Leu Tyr Gly Phe Ile Phe Tyr Met Phe His
 355 360 365
 Val Glu Leu Thr Glu Leu Gly Pro Lys Leu Asn Ser Asn Asn Val Pro
 370 375 380
 Leu Gln Gly Ala Val Ile Pro Gly Pro Pro Phe Leu Phe Gly Ala Cys
 385 390 395 400
 Ile Val Leu Met Ser Phe Leu Val Ala Leu Phe Ile Pro Glu Tyr Ser
 405 410 415
 Lys Ala Ser Gly Val Gln Lys His Ser Asn Ser Ser Ser Gly Ser Leu
 420 425 430
 Thr Asn Thr Pro Glu Arg Gly Ser Asp Glu Asp Ile Glu Pro Leu Leu
 435 440 445
 Gln Asp Ser Ser Ile Trp Glu Leu Ser Ser Phe Glu Glu Pro Gly Asn
 450 455 460
 Gln Cys Thr Glu Leu
 465

<210> 628

<211> 157

<212> PRT

<213> Homo sapiens

<400> 628

Asn Tyr Ile Pro Glu Val Arg Ile Met Ser Ile Pro Asn Leu Arg Tyr
 1 5 10 15

Met Lys Glu Ser Gln Val Leu Leu Thr Leu Thr Asn Pro Val Glu Asn
 20 25 30

636

Leu Thr His Val Thr Leu Phe Glu Cys Glu Glu Gly Asp Pro Asp Asp
 35 40 45
 Ile Asn Ser Thr Ala Lys Val Val Val Pro Pro Lys Glu Leu Val Leu
 50 55 60
 Ala Gly Lys Asp Ala Ala Ala Glu Tyr Asp Glu Leu Ala Glu Pro Gln
 65 70 75 80
 Asp Phe Gln Asp Asp Pro Asp Ile Ile Ala Phe Arg Lys Ala Asn Lys
 85 90 95
 Val Gly Ile Phe Ile Lys Val Thr Pro Gln Arg Glu Glu Gly Glu Val
 100 105 110
 Thr Val Cys Phe Lys Met Lys His Asp Phe Lys Asn Leu Ala Ala Pro
 115 120 125
 Ile Arg Pro Ile Glu Glu Ser Asp Gln Gly Thr Glu Val Ile Trp Leu
 130 135 140
 Thr Gln His Val Glu Leu Ser Leu Gly Pro Leu Leu Pro
 145 150 155

<210> 629

<211> 208

<212> PRT

<213> Homo sapiens

<400> 629

Arg Met Thr Ser Arg Lys Lys Val Leu Leu Lys Val Ile Ile Leu Gly
 1 5 10 15
 Asp Ser Gly Val Gly Lys Thr Ser Leu Met Asn Gln Tyr Val Asn Lys
 20 25 30
 Lys Phe Ser Asn Gln Tyr Lys Ala Thr Ile Gly Ala Asp Phe Leu Thr
 35 40 45
 Lys Glu Val Met Val Asp Asp Arg Leu Val Thr Met Gln Ile Trp Asp
 50 55 60
 Thr Ala Gly Gln Glu Arg Phe Gln Ser Leu Gly Val Ala Phe Tyr Arg
 65 70 75 80
 Gly Ala Asp Cys Cys Val Leu Val Phe Asp Val Thr Ala Pro Asn Thr
 85 90 95

637

Phe Lys Thr Leu Asp Ser Trp Arg Asp Glu Phe Leu Ile Gln Ala Ser
 100 105 110
 Pro Arg Asp Pro Glu Asn Phe Pro Phe Val Val Leu Gly Asn Lys Ile
 115 120 125
 Asp Leu Glu Asn Arg Gln Val Ala Thr Lys Arg Ala Gln Ala Trp Cys
 130 135 140
 Tyr Ser Lys Asn Asn Ile Pro Tyr Phe Glu Thr Ser Ala Lys Glu Ala
 145 150 155 160
 Ile Asn Val Glu Gln Ala Phe Gln Thr Ile Ala Arg Asn Ala Leu Lys
 165 170 175
 Gln Glu Thr Glu Val Glu Leu Tyr Asn Glu Phe Pro Glu Pro Ile Lys
 180 185 190
 Leu Asp Lys Asn Asp Arg Ala Lys Ala Ser Ala Glu Ser Cys Ser Cys
 195 200 205

<210> 630
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 630
 Thr Ala Met Ser Ser Glu Glu Gly Lys Leu Phe Val Gly Gly Leu Asn
 1 5 10 15
 Phe Asn Thr Asp Glu Gln Ala Leu Glu Asp His Phe Ser Ser Phe Gly
 20 25 30
 Pro Ile Ser Glu Val Val Val Val Lys Asp Arg Glu Thr Gln Arg Ser
 35 40 45
 Arg Gly Phe Gly Phe Ile Thr Phe Thr Asn Pro Glu His Ala Ser Val
 50 55 60
 Ala Met Arg Ala Met Asn Gly Glu Ser Leu Asp Gly Arg Gln Ile Arg
 65 70 75 80
 Val Asp His Ala Gly Lys Ser Ala Arg Gly Thr Arg Gly Gly Gly Phe
 85 90 95
 Gly Ala His Gly Arg Gly Arg Ser Tyr Ser Arg Gly Gly Gly Asp Gln

638

100 105 110
 Gly Tyr Gly Ser Gly Arg Tyr Tyr Asp Ser Arg Pro Gly Gly Tyr Gly
 115 120 125
 Tyr Gly Tyr Gly Arg Ser Arg Asp Tyr Asn Gly Arg Asn Gln Gly Gly
 130 135 140
 Tyr Asp Arg Tyr Ser Gly Gly Asn Tyr Arg Asp Asn Tyr Asp Asn
 145 150 155

<210> 631
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 631
 Phe Asn Val Phe Tyr Leu Thr Leu Arg Ser Cys Leu Ile Lys Thr Leu
 1 5 10 15
 Asn Ser Thr Cys Lys Met Val Ala Gln Cys Tyr Ala Arg Ser Gly Cys
 20 25 30
 Ser Leu Val Leu Asn Glu His Ile Cys Asn Thr Thr Cys Asn Ser Ile
 35 40 45

<210> 632
 <211> 679
 <212> PRT
 <213> Homo sapiens

<400> 632
 Arg Ile Trp Val Asn Ile Ser Leu Ser Gly Ile Lys Ile Ile Asp Glu
 1 5 10 15
 Lys Thr Gly Val Ile Glu His Glu His Pro Val Asn Lys Ile Ser Phe
 20 25 30
 Ile Ala Arg Asp Val Thr Asp Asn Arg Ala Phe Gly Tyr Val Cys Gly
 35 40 45
 Gly Glu Gly Gln His Gln Phe Phe Ala Ile Lys Thr Gly Gln Gln Ala
 50 55 60

Glu	Pro	Leu	Val	Val	Asp	Leu	Lys	Asp	Leu	Phe	Gln	Val	Ile	Tyr	Asn	
65					70					75					80	
Val	Lys	Lys	Lys	Glu	Glu	Glu	Lys	Lys	Lys	Ile	Glu	Glu	Ala	Ser	Lys	
				85					90					95		
Ala	Val	Glu	Asn	Gly	Ser	Glu	Ala	Leu	Met	Ile	Leu	Asp	Asp	Gln	Thr	
			100					105					110			
Asn	Lys	Leu	Lys	Ser	Gly	Val	Asp	Gln	Met	Asp	Leu	Phe	Gly	Asp	Met	
		115					120					125				
Ser	Thr	Pro	Pro	Asp	Leu	Asn	Ser	Pro	Thr	Glu	Ser	Lys	Asp	Ile	Leu	
	130					135						140				
Leu	Val	Asp	Leu	Asn	Ser	Glu	Ile	Asp	Thr	Asn	Gln	Asn	Ser	Leu	Arg	
145					150					155					160	
Glu	Asn	Pro	Phe	Leu	Thr	Asn	Gly	Ile	Thr	Ser	Cys	Ser	Leu	Pro	Arg	
				165					170					175		
Pro	Thr	Pro	Gln	Ala	Ser	Phe	Leu	Pro	Glu	Asn	Ala	Phe	Ser	Ala	Asn	
			180					185					190			
Leu	Asn	Phe	Phe	Pro	Thr	Pro	Asn	Pro	Asp	Pro	Phe	Arg	Asp	Asp	Pro	
		195					200					205				
Phe	Thr	Gln	Pro	Asp	Gln	Ser	Thr	Pro	Ser	Ser	Phe	Asp	Ser	Leu	Lys	
	210					215					220					
Ser	Pro	Asp	Gln	Lys	Lys	Glu	Asn	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Leu	
225					230					235					240	
Ser	Asn	Gly	Pro	Leu	Asn	Gly	Asp	Val	Asp	Tyr	Phe	Gly	Gln	Gln	Phe	
				245					250					255		
Asp	Gln	Ile	Ser	Asn	Arg	Thr	Gly	Lys	Gln	Glu	Ala	Gln	Ala	Gly	Pro	
			260					265					270			
Trp	Pro	Phe	Ser	Ser	Ser	Gln	Thr	Gln	Pro	Ala	Val	Arg	Thr	Gln	Asn	
		275					280					285				
Gly	Val	Ser	Glu	Arg	Glu	Gln	Asn	Gly	Phe	Ser	Val	Lys	Ser	Ser	Pro	
	290					295					300					
Asn	Pro	Phe	Val	Gly	Ser	Pro	Pro	Lys	Gly	Leu	Ser	Ile	Gln	Asn	Gly	
305					310					315					320	
Val	Lys	Gln	Asp	Leu	Glu	Ser	Ser	Val	Gln	Ser	Ser	Pro	His	Asp	Ser	
				325					330					335		

640

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Ile Ala Ile Ile Pro Pro Pro Gln Ser Thr Lys Pro Gly Arg Gly Arg
      340                      345                      350

Arg Thr Ala Lys Ser Ser Ala Asn Asp Leu Leu Ala Ser Asp Ile Phe
      355                      360                      365

Ala Pro Pro Val Ser Glu Pro Ser Gly Gln Ala Ser Pro Thr Gly Gln
      370                      375                      380

Pro Thr Ala Leu Gln Pro Asn Pro Leu Asp Leu Phe Lys Thr Ser Ala
      385                      390                      395                      400

Pro Ala Pro Val Gly Pro Leu Val Gly Leu Gly Gly Val Thr Val Thr
      405                      410                      415

Leu Pro Gln Ala Gly Pro Trp Asn Thr Ala Ser Leu Val Phe Asn Gln
      420                      425                      430

Ser Pro Ser Met Ala Pro Gly Ala Met Met Gly Gly Gln Pro Ser Gly
      435                      440                      445

Phe Ser Gln Pro Val Ile Phe Gly Thr Ser Pro Ala Val Ser Gly Trp
      450                      455                      460

Asn Gln Pro Ser Pro Phe Ala Ala Ser Thr Pro Pro Pro Val Pro Val
      465                      470                      475                      480

Val Trp Gly Pro Ser Ala Ser Val Ala Pro Asn Ala Trp Ser Thr Thr
      485                      490                      495

Ser Pro Leu Gly Asn Pro Phe Gln Ser Asn Ile Phe Pro Ala Pro Ala
      500                      505                      510

Val Ser Thr Gln Pro Pro Ser Met His Ser Ser Leu Leu Val Thr Pro
      515                      520                      525

Pro Gln Pro Pro Pro Arg Ala Gly Pro Pro Lys Asp Ile Ser Ser Asp
      530                      535                      540

Ala Phe Thr Ala Leu Asp Pro Leu Gly Asp Lys Glu Ile Lys Asp Val
      545                      550                      555                      560

Lys Glu Met Phe Lys Asp Phe Gln Leu Arg Gln Pro Pro Ala Val Pro
      565                      570                      575

Ala Arg Lys Gly Glu Gln Thr Ser Ser Gly Thr Leu Ser Ala Phe Ala
      580                      585                      590

Ser Tyr Phe Asn Ser Lys Val Gly Ile Pro Gln Glu Asn Ala Asp His
      595                      600                      605

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641

Asp Asp Phe Asp Ala Asn Gln Leu Leu Asn Lys Ile Asn Glu Pro Pro
 610 615 620
 Lys Pro Ala Pro Arg Gln Val Ser Leu Pro Val Thr Lys Ser Thr Asp
 625 630 635 640
 Asn Ala Phe Glu Asn Pro Phe Phe Lys Asp Ser Phe Gly Ser Ser Gln
 645 650 655
 Ala Ser Val Ala Ser Ser Gln Pro Val Ser Ser Glu Met Tyr Arg Asp
 660 665 670
 Pro Phe Gly Asn Pro Phe Ala
 675

<210> 633
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (159)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 633
 Xaa Leu Val Asp Pro Pro Gly Leu Xaa Gly Ile Pro Arg Ala Ala Leu
 1 5 10 15
 Gly His Leu Ala Gly Glu Ala Ala Ala Pro Gly Pro Gly Thr Pro
 20 25 30
 Cys Ala Ser Arg Gly Ala Arg Leu Pro Gly Pro Val Ser Ser Ala Arg
 35 40 45

642

Asn Pro Ser Thr Val Cys Leu Cys Pro Glu Gln Pro Thr Cys Ser Asn
 50 55 60
 Ala Asp Ser Arg Ala His Pro Leu Gly Asp Glu Gly Gly Thr Ala Ser
 65 70 75 80
 Lys Lys Gln Lys Asn Lys Lys Lys Thr Arg Asn Arg Ala Ser Val Ala
 85 90 95
 Asn Gly Gly Glu Lys Ala Ser Glu Lys Leu Ala Pro Glu Glu Val Pro
 100 105 110
 Leu Ser Ala Glu Ala Gln Ala Gln Gln Leu Ala Gln Glu Leu Ala Trp
 115 120 125
 Cys Val Glu Gln Leu Glu Leu Gly Leu Lys Arg Gln Lys Pro Thr Pro
 130 135 140
 Lys Gln Lys Glu Gln Xaa Leu Glu Gln Ser Glu Pro Cys Ala Xaa Lys
 145 150 155 160
 Glu Arg Pro Cys Pro Gly Arg Gly Ser
 165

<210> 634

<211> 389

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

643

<400> 634

Xaa	Gly	Leu	Cys	Ala	Pro	Gln	Pro	Gly	Val	Arg	Lys	Ala	Arg	Gly	Ala	1	5	10	15
Gly	Asn	Trp	Arg	Val	Gly	Leu	Gln	Thr	Gly	Glu	Ala	Ala	Pro	Ser	Pro	20	25	30	
His	Arg	Asp	Leu	Arg	Asp	Thr	Pro	Asp	Pro	Arg	Pro	Trp	Leu	Ala	Arg	35	40	45	
Thr	His	Arg	Met	Thr	Thr	Thr	Leu	Val	Ser	Ala	Thr	Ile	Phe	Asp	Leu	50	55	60	
Ser	Glu	Val	Leu	Cys	Lys	Gly	Asn	Lys	Met	Leu	Asn	Tyr	Ser	Ala	Pro	65	70	75	80
Ser	Ala	Gly	Gly	Cys	Leu	Leu	Asp	Arg	Lys	Ala	Val	Gly	Thr	Pro	Ala	85	90	95	
Gly	Gly	Gly	Phe	Pro	Arg	Arg	His	Ser	Val	Thr	Leu	Pro	Ser	Ser	Lys	100	105	110	
Phe	His	Gln	Asn	Gln	Leu	Leu	Ser	Ser	Leu	Lys	Gly	Glu	Pro	Ala	Pro	115	120	125	
Ala	Leu	Ser	Ser	Arg	Asp	Ser	Arg	Phe	Arg	Asp	Arg	Ser	Phe	Ser	Glu	130	135	140	
Gly	Ala	Ser	Gly	Cys	Cys	Pro	Xaa	Arg	Ser	Ser	Pro	Gly	Ala	Ala	Xaa	145	150	155	160
Ser	Asn	Ser	Ser	Arg	Tyr	Lys	Thr	Glu	Leu	Cys	Arg	Pro	Phe	Xaa	Glu	165	170	175	
Asn	Gly	Ala	Cys	Lys	Tyr	Gly	Asp	Lys	Cys	Gln	Phe	Ala	His	Gly	Ile	180	185	190	
His	Glu	Leu	Arg	Ser	Leu	Thr	Arg	His	Pro	Lys	Tyr	Lys	Thr	Glu	Leu	195	200	205	
Cys	Arg	Thr	Phe	His	Thr	Ile	Gly	Phe	Cys	Pro	Tyr	Gly	Pro	Arg	Cys	210	215	220	
His	Phe	Ile	His	Asn	Ala	Glu	Glu	Arg	Arg	Ala	Leu	Ala	Gly	Ala	Arg	225	230	235	240
Asp	Leu	Ser	Ala	Asp	Arg	Pro	Arg	Leu	Gln	His	Ser	Phe	Ser	Phe	Ala	245	250	255	
Gly	Phe	Pro	Ser	Ala	Ala	Ala	Thr	Ala	Ala	Ala	Thr	Gly	Leu	Leu	Asp				

260

270

Ser Ile Ser Asp Asp
385

Leu Leu Leu Tyr Ile Ile Lys Ile Gly Gly Asp Tyr Phe Phe Ile Tyr
50 55 60

645

Ala	Trp	Leu	Phe	Thr	Leu	Val	Val	Ser	Leu	Val	Leu	Val	Thr	Ile	Tyr	65	70	75	80
Ala	Asp	Tyr	Ile	Ala	Pro	Leu	Phe	Asp	Lys	Phe	Thr	Pro	Leu	Pro	Glu	85	90	95	
Gly	Lys	Leu	Lys	Xaa	Glu	Ile	Glu	Val	Met	Ala	Lys	Ser	Ile	Asp	Phe	100	105	110	
Pro	Leu	Thr	Lys	Val	Tyr	Val	Val	Glu	Gly	Ser	Lys	Arg	Ser	Ser	His	115	120	125	
Ser	Asn	Ala	Tyr	Phe	Tyr	Gly	Phe	Phe	Lys	Asn	Lys	Arg	Ile	Val	Leu	130	135	140	
Phe	Asp	Thr	Leu	Leu	Glu	Glu	Tyr	Ser	Val	Leu	Asn	Lys	Asp	Ile	Gln	145	150	155	160
Glu	Asp	Ser	Gly	Met	Glu	Pro	Arg	Asn	Glu	Glu	Glu	Gly	Asn	Ser	Glu	165	170	175	
Glu	Ile	Lys	Ala	Lys	Val	Lys	Asn	Lys	Lys	Gln	Gly	Cys	Lys	Asn	Glu	180	185	190	
Glu	Val	Leu	Ala	Val	Leu	Gly	His	Glu	Leu	Gly	His	Trp	Lys	Leu	Gly	195	200	205	
His	Thr	Val	Lys	Asn	Ile	Ile	Ile	Ser	Gln	Met	Asn	Ser	Phe	Leu	Cys	210	215	220	
Phe	Phe	Leu	Phe	Ala	Val	Leu	Ile	Gly	Arg	Lys	Glu	Leu	Phe	Ala	Ala	225	230	235	240
Phe	Gly	Phe	Tyr	Asp	Ser	Gln	Pro	Thr	Leu	Ile	Gly	Leu	Leu	Ile	Ile	245	250	255	
Phe	Gln	Phe	Ile	Phe	Ser	Pro	Tyr	Asn	Glu	Val	Leu	Ser	Phe	Cys	Leu	260	265	270	
Thr	Val	Leu	Ser	Arg	Arg	Phe	Glu	Phe	Gln	Ala	Asp	Ala	Phe	Ala	Lys	275	280	285	
Lys	Leu	Gly	Lys	Ala	Lys	Asp	Leu	Tyr	Ser	Ala	Leu	Ile	Lys	Leu	Asn	290	295	300	
Lys	Asp	Asn	Leu	Gly	Phe	Pro	Val	Ser	Asp	Trp	Leu	Phe	Ser	Met	Trp	305	310	315	320
His	Tyr	Ser	His	Pro	Pro	Leu	Leu	Glu	Arg	Leu	Gln	Ala	Leu	Lys	Thr	325	330	335	

646

Met Lys Gln His

340

<210> 636

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 636

Ala Ser Ile Gly Arg Thr Gly Gly Ser Xaa Xaa Ser Cys Ser Gly Gly

1

5

10

15

Arg Leu Leu Gly Val Glu Phe Pro Ser Ala Pro Arg Val Arg Pro Phe

20

25

30

Glu Arg Ser Ala Pro Ala Pro Ala Thr Ser Leu Leu Gly Ala Met Thr

35

40

45

Thr Thr Thr Thr Phe Lys Gly Val Asp Pro Asn Ser Arg Asn Ser Ser

50

55

60

Arg Val Leu Arg Pro Pro Gly Gly Gly Ser Asn Phe Ser Leu Gly Phe

65

70

75

80

Asp Glu Pro Thr Glu Gln Pro Val Arg Lys Asn Lys Met Ala Ser Asn

85

90

95

Ile Phe Gly Thr Pro Glu Glu Asn Gln Ala Ser Trp Ala Lys Ser Ala

100

105

110

Gly Ala Lys Ser Ser Gly Gly Arg Glu Asp Leu Glu Ser Ser Gly Leu

115

120

125

Gln Arg Arg Asn Ser Ser Glu Ala Ser Ser Gly Asp Phe Leu Asp Leu

130

135

140

Lys Gly Glu Gly Asp Ile His Glu Asn Val Asp Thr Asp Leu Pro Gly

145

150

155

160

Ser	Leu	Gly	Gln	Ser	Glu	Glu	Lys	Pro	Val	Pro	Ala	Ala	Pro	Val	Pro
			165						170					175	
Ser	Pro	Val	Ala	Pro	Ala	Pro	Val	Pro	Ser	Arg	Arg	Asn	Pro	Pro	Gly
			180						185				190		
Gly	Lys	Ser	Ser	Leu	Val	Leu	Gly								
		195					200								

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<400> 637
Ser Phe Arg Arg Pro Val Ala Met Leu Cys Ser Gln Ser Asn Phe Gln
 1             5             10             15

Lys Thr Ile Asn Lys Lys Glu Ser Met Phe Lys Leu Lys Trp Asn Leu
          20             25             30

Glu Asn Leu Ser Leu Leu Thr Tyr Phe Asn Ala Thr Gly Asn Leu Gly
      35             40             45

Phe Thr Thr Lys Cys Cys
    50

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<400> 638

Ala	Ala	Pro	Arg	Arg	His	Arg	Gly	Ala	Val	Glu	Ser	Pro	Pro	Pro	Asp
1				5					10					15	
Pro	Arg	Pro	Val	Ala	Arg	Pro	His	Leu	Ala	Asn	Arg	Gly	Gly	Pro	Arg
			20					25					30		
Ser	Val	Arg	Thr	Thr	Pro	Pro	Leu	Leu	Ser	Pro	Pro	Pro	Asp	His	Ala
		35					40					45			
Pro	Gln	Leu	Arg	Lys	Met	Gly	Asn	Cys	Leu	Lys	Ser	Pro	Thr	Ser	Asp
	50					55					60				
Asp	Ile	Ser	Leu	Leu	His	Glu	Ser	Gln	Ser	Asp	Arg	Ala	Ser	Phe	Gly
65					70					75					80

648

Glu Gly Thr Glu Pro Asp Gln Glu Pro Pro Pro Pro Tyr Gln Glu Gln
 85 90 95
 Val Pro Val Pro Val Tyr His Pro Thr Pro Ser Gln Thr Arg Leu Ala
 100 105 110
 Thr Gln Leu Thr Glu Glu Glu Gln Ile Arg Ile Ala Gln Arg Ile Gly
 115 120 125
 Leu Ile Gln His Leu Pro Lys Gly Val Tyr Asp Pro Gly Arg Asp Gly
 130 135 140
 Ser Glu Lys Lys Ile Arg Glu Cys Val Ile Cys Met Met Asp Phe Val
 145 150 155 160
 Tyr Gly Asp Pro Ile Arg Phe Leu Pro Cys Met His Ile Tyr His Leu
 165 170 175
 Asp Cys Ile Asp Asp Trp Leu Met Arg Ser Phe Thr Cys Pro Ser Cys
 180 185 190
 Met Glu Pro Val Asp Ala Ala Leu Leu Ser Ser Tyr Glu Thr Asn
 195 200 205

<210> 639

<211> 142

<212> PRT

<213> Homo sapiens

<400> 639

Gly Gln Val Gln Gly Asn Ser Ser Ile Lys Leu Glu Leu Asp Ala Ser
 1 5 10 15
 Lys Lys Lys Glu Ser Lys Asp His Gln Leu Leu Arg Tyr Leu Leu Asp
 20 25 30
 Lys Asp Glu Lys Asp Leu Arg Ser Thr Pro Asn Leu Ser Leu Asp Asp
 35 40 45
 Val Lys Val Lys Val Glu Lys Lys Glu Gln Met Asp Pro Cys Asn Thr
 50 55 60
 Asn Pro Thr Pro Met Thr Lys Pro Thr Pro Glu Glu Ile Lys Leu Glu
 65 70 75 80
 Ala Gln Ser Gln Phe Thr Ala Asp Leu Asp Gln Phe Asp Gln Leu Leu
 85 90 95

649

Pro Thr Leu Glu Lys Ala Ala Gln Leu Pro Gly Leu Cys Glu Thr Asp
 100 105 110

Arg Met Asp Gly Ala Val Thr Ser Val Thr Ile Lys Ser Glu Ile Leu
 115 120 125

Pro Ala Ser Leu Gln Ser Ala Leu Pro Asp Pro Leu Pro Gly
 130 135 140

<210> 640

<211> 106

<212> PRT

<213> Homo sapiens

<400> 640

Asp Asn Arg Arg Thr Phe Leu Pro Arg Leu Phe Val Gly Val Val Pro
 1 5 10 15

Gly Thr Gly Phe Gly Glu Leu Val Tyr Asn Gln Gly Leu Ile Leu Lys
 20 25 30

Met Ser Phe Phe Ile Leu Leu Phe Phe Lys His Gln Ile Leu Leu Phe
 35 40 45

Phe Phe Phe Leu Pro Ser Pro Gln Ile Pro Ser Gln Ile Ile Leu Leu
 50 55 60

Thr Thr Ile Pro Thr Gly Arg Gly Glu Leu Lys His Leu Leu Pro Leu
 65 70 75 80

Pro Cys Phe Ser Phe Ile Phe Tyr Phe Phe Ala Ser Val Leu Met Phe
 85 90 95

Leu His Thr Leu His Leu Tyr Ser Lys Val
 100 105

<210> 641

<211> 645

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

650

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 641

Cys	Ala	Xaa	Arg	Glu	Arg	Leu	Lys	Asn	Pro	Asn	Ala	Pro	Met	Leu	Pro	1	5	10	15
Pro	Pro	Lys	Asn	Lys	Glu	Asp	Phe	Glu	Lys	Thr	Leu	Ser	Gln	Ala	Ile	20	25	30	
Val	Lys	Val	Val	Ile	Pro	Thr	Glu	Arg	Asn	Leu	Leu	Ala	Leu	Ile	His	35	40	45	
Arg	Met	Ile	Glu	Phe	Val	Val	Arg	Glu	Gly	Pro	Met	Phe	Glu	Ala	Met	50	55	60	
Xaa	Met	Asn	Arg	Glu	Ile	Asn	Asn	Pro	Met	Phe	Arg	Phe	Leu	Phe	Glu	65	70	75	80
Asn	Gln	Thr	Pro	Ala	His	Val	Tyr	Tyr	Arg	Trp	Lys	Leu	Tyr	Ser	Ile	85	90	95	
Leu	Gln	Gly	Asp	Ser	Pro	Thr	Lys	Trp	Arg	Thr	Glu	Asp	Phe	Arg	Met	100	105	110	
Phe	Lys	Asn	Gly	Ser	Phe	Trp	Arg	Pro	Pro	Pro	Leu	Asn	Pro	Tyr	Leu	115	120	125	
His	Gly	Met	Ser	Glu	Glu	Gln	Glu	Thr	Glu	Ala	Phe	Val	Glu	Glu	Pro	130	135	140	
Ser	Lys	Lys	Gly	Ala	Leu	Lys	Glu	Glu	Gln	Arg	Asp	Lys	Leu	Glu	Glu	145	150	155	160
Ile	Leu	Arg	Gly	Leu	Thr	Pro	Arg	Lys	Asn	Asp	Ile	Gly	Asp	Ala	Met	165	170	175	
Val	Phe	Cys	Leu	Asn	Asn	Ala	Glu	Ala	Ala	Glu	Glu	Ile	Val	Asp	Cys	180	185	190	
Ile	Thr	Glu	Ser	Leu	Ser	Ile	Leu	Lys	Thr	Pro	Leu	Pro	Lys	Lys	Ile	195	200	205	
Ala	Arg	Leu	Tyr	Leu	Val	Ser	Asp	Val	Leu	Tyr	Asn	Ser	Ser	Ala	Lys	210	215	220	
Val	Ala	Asn	Ala	Ser	Tyr	Tyr	Arg	Lys	Phe	Phe	Glu	Thr	Lys	Leu	Cys	225	230	235	240
Gln	Ile	Phe	Ser	Asp	Leu	Asn	Ala	Thr	Tyr	Arg	Thr	Ile	Gln	Gly	His				

652

515 520 525
 Lys Glu Lys Asp Glu Cys Thr Pro Thr Arg Lys Glu Arg Lys Arg Arg
 530 535 540
 His Ser Thr Ser Pro Ser Pro Ser Arg Ser Ser Ser Gly Arg Arg Val
 545 550 555 560
 Lys Ser Pro Ser Pro Lys Ser Glu Arg Ser Glu Arg Ser Glu Arg Ser
 565 570 575
 His Lys Glu Ser Ser Arg Ser Arg Ser Ser His Lys Asp Ser Pro Arg
 580 585 590
 Asp Val Ser Lys Lys Ala Lys Arg Ser Pro Ser Gly Ser Arg Thr Pro
 595 600 605
 Lys Arg Ser Arg Arg Ser Arg Ser Arg Ser Pro Lys Lys Ser Gly Lys
 610 615 620
 Lys Ser Arg Ser Gln Ser Arg Ser Pro His Arg Ser His Lys Lys Ser
 625 630 635 640
 Lys Lys Asn Lys His
 645

<210> 642

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 642

Trp Xaa Gly Val Ile Gly Thr Gly Arg Tyr Arg Val Cys Glu Val Asp
 1 5 10 15

Pro Glu Leu Thr Glu Lys Leu Arg Lys Phe Arg Phe Arg Lys Glu Thr
 20 25 30

Asp Asn Ala Ala Ile Ile Met Lys Val Asp Lys Asp Arg Gln Met Val

653

35	40	45
Val Leu Glu Glu Glu Phe Gln Asn Ile Ser Pro Glu Glu Leu Lys Met		
50	55	60
Glu Leu Pro Glu Arg Gln Pro Arg Phe Val Val Tyr Ser Tyr Lys Tyr		
65	70	75 80
Val His Asp Asp Gly Arg Val Ser Tyr Pro Leu Cys Phe Ile Phe Ser		
	85 90	95
Ser Pro Val Gly Cys Lys Xaa Glu Gln Gln Met Met Tyr Ala Gly Ser		
	100 105	110
Lys Asn Arg Leu Val Gln Thr Ala Glu Leu Thr Lys Val Phe Glu Ile		
	115 120	125
Arg Thr Thr Asp Asp Leu Thr Glu Ala Trp Leu Gln Glu Lys Leu Ser		
	130 135	140
Phe Phe Arg		
145		

<210> 643

<211> 79

<212> PRT

<213> Homo sapiens

<400> 643

Lys Asn Thr Ile Ser Asn Asn Ser Asp Met Ala Glu Val Lys Ser Met
1 5 10 15
Phe Arg Glu Val Leu Pro Lys Gln Gly Pro Leu Phe Val Glu Asp Ile
20 25 30
Met Thr Met Val Leu Cys Lys Pro Lys Leu Leu Pro Leu Lys Ser Leu
35 40 45
Thr Leu Glu Lys Leu Glu Lys Met His Gln Ala Ala Gln Asn Thr Ile
50 55 60
Arg Gln Gln Glu Met Ala Glu Lys Asp Gln Arg Gln Ile Thr His
65 70 75

<210> 644

<211> 273

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle$ (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 644

Xaa	Ala	Gly	Pro	Arg	Ser	Ile	Arg	Cys	Pro	Leu	Ile	Phe	Leu	Pro	Pro
1				5					10					15	
Val	Ser	Gly	Thr	Ala	Asp	Val	Phe	Phe	Arg	Gln	Ile	Leu	Ala	Leu	Thr
			20					25					30		
Gly	Trp	Gly	Tyr	Arg	Val	Ile	Ala	Leu	Gln	Tyr	Pro	Val	Tyr	Trp	Asp
		35					40					45			
His	Leu	Glu	Phe	Cys	Asp	Gly	Phe	Arg	Lys	Leu	Leu	Asp	His	Leu	Gln
	50					55					60				
Leu	Asp	Lys	Val	His	Leu	Phe	Gly	Ala	Ser	Leu	Gly	Gly	Phe	Leu	Ala
65					70					75					80
Gln	Lys	Phe	Ala	Glu	Tyr	Thr	His	Lys	Ser	Pro	Arg	Val	His	Ser	Leu
				85					90					95	
Ile	Leu	Cys	Asn	Ser	Phe	Ser	Asp	Thr	Ser	Ile	Phe	Asn	Gln	Thr	Trp
			100					105					110		
Thr	Ala	Asn	Ser	Phe	Trp	Leu	Met	Pro	Ala	Phe	Met	Leu	Lys	Lys	Ile
		115					120					125			
Val	Leu	Gly	Asn	Phe	Ser	Ser	Gly	Pro	Val	Asp	Pro	Met	Met	Ala	Asp
	130					135					140				
Ala	Ile	Asp	Phe	Met	Val	Asp	Arg	Leu	Glu	Ser	Leu	Gly	Gln	Ser	Glu
145					150					155					160
Leu	Ala	Ser	Arg	Leu	Thr	Leu	Asn	Cys	Gln	Asn	Ser	Tyr	Val	Glu	Pro
				165					170					175	
His	Lys	Ile	Arg	Asp	Ile	Pro	Val	Thr	Ile	Met	Asp	Val	Phe	Asp	Gln
			180					185					190		
Ser	Ala	Leu	Ser	Thr	Glu	Ala	Lys	Glu	Glu	Met	Tyr	Lys	Leu	Tyr	Pro
		195					200					205			
Asn	Ala	Arg	Arg	Ala	His	Leu	Lys	Thr	Gly	Gly	Asn	Phe	Pro	Tyr	Leu
	210					215					220				
Cys	Arg	Ser	Ala	Glu	Val	Asn	Leu	Tyr	Val	Gln	Ile	His	Leu	Leu	Gln

225						230				235						240			
Phe	His	Gly	Thr	Lys	Tyr	Ala	Ala	Ile	Asp	Pro	Ser	Met	Val	Ser	Ala				
					245				250				255						
Glu	Glu	Leu	Glu	Val	Gln	Lys	Gly	Ser	Leu	Gly	Ile	Ser	Gln	Glu	Glu				
					260				265				270						
Gln																			

```

<400> 645
Phe Ala Asn Ser Tyr Leu Leu Asn Gly Glu Val Leu Lys Ile Ser Pro
  1                      5                      10                      15
Gly Lys Phe Lys Ile Gln Thr Pro Ser Ile Glu His Leu His Cys Val
  20                      25                      30
Pro Gly Ser Lys Ile Gly Ala Phe Ile His Ile Val Ser Ile Pro Val
  35                      40                      45
Arg Ser Glu Leu Ser Leu His Leu Lys Leu Glu Glu Thr Cys Ser Glu
  50                      55                      60
Cys Lys Lys Leu Pro Cys Leu Arg Ser Pro Arg Lys Glu Pro Ser Glu
  65                      70                      75                      80
Pro Ala Thr Glu Ser Trp Ser Leu
                      85

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<400> 646
Phe Tyr Asn Glu Met Leu Leu Ser Ile Gly Met Leu Met Leu Ser Ala
 1              5              10              15
Thr Gln Val Tyr Thr Ile Leu Thr Val Gln Leu Phe Ala Phe Leu Asn
                20              25              30

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[illegible]

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<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<400> 647
Met Leu Asp Ile Ser Gly Phe Gln Gly Gly Pro Val Glu Ile Leu Pro
  1             5             10             15
Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ser Arg Lys Asp Met Leu
      20             25             30
Asp Ala Leu Gly Ile Thr Ala Leu Ile Asn Val Ser Ala Asn Cys Pro
      35             40             45
Asn His Phe Glu Gly His Tyr Gln Tyr Lys Ser Ile Pro Val Glu Asp
      50             55             60
Asn His Lys Ala Asp Ile Ser Ser Trp Phe Asn Glu Ala Ile Asp Phe
      65             70             75             80
Ile Asp Ser Ile Lys Asn Ala Gly Gly Arg Val Phe Val His Cys Gln
      85             90             95
Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Arg
      100            105            110
Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys Gln Arg
      115            120            125

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657

Arg Xaa Ser Ser Leu Pro Thr Ser Ala Ser Trp Ala Ser Cys Cys Ser
 130 135 140

Leu Ser Pro Arg Cys Trp Leu Arg Thr Val Arg Gln Arg Leu Gly Ala
 145 150 155 160

Pro Pro Trp Leu Cys Ser Thr Glu Ala Pro Pro Pro Pro Cys Ser
 165 170 175

Thr Ser Pro Ser Pro Ser Leu Ser Thr Pro Arg Thr Val Arg
 180 185 190

<210> 648

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 648

Ser Gln Asp Gln Gly Glu Arg Gly Gly Ala Gly Ala Ala Arg Gln Phe
 1 5 10 15

Leu Leu Val Asn Phe Asn His Ile His Lys Arg Ile Arg Arg Val Ala
 20 25 30

Asp Lys Tyr Leu Ser Gly Leu Val Asp Lys Phe Pro His Leu Leu Trp
 35 40 45

Ser Gly Thr Val Leu Lys Thr Met Leu Asp Ile Leu Gln Thr Leu Ser
 50 55 60

Leu Ser Leu Ser Ala Asp Ile His Lys Asp Gln Pro Tyr Tyr Asp Ile
 65 70 75 80

Pro Asp Ala Pro Tyr Arg Ile Thr Val Pro Asp Thr Tyr Glu Ala Arg
 85 90 95

Glu Ser Ile Val Lys Asp Phe Ala Ala Arg Cys Gly Met Ile Leu Gln
 100 105 110

Glu Ala Met Lys Trp Ala Pro Thr Val Thr Lys Ser His Leu Gln Glu
 115 120 125

Tyr Leu Asn Lys His Xaa Asn Trp Val Ser Gly Leu Ser Gln His Thr

658

130	135	140
Gly Leu Ala Met Ala Thr Glu Ser Ile Leu His Phe Ala Gly Tyr Asn		
145	150	155 160
Lys Gln Asn Thr Thr Leu Gly Ala Thr Gln Leu Ser Glu Arg Pro Ala		
	165	170 175
Cys Val Lys Lys Asp Tyr Ser Asn Phe Met Ala Ser Leu Asn Leu Arg		
	180	185 190
Asn Arg Tyr Ala Gly Glu Val Tyr Gly Met Ile Arg Phe Ser Gly Thr		
	195	200 205
Thr Gly Gln Met Ser Asp Leu Asn Lys Met Met Val Gln Asp Leu His		
	210	215 220
Ser Ala Leu Asp Arg Ser His Pro Gln His Tyr Thr Gln Ala Met Phe		
	225	230 235 240
Lys Leu Thr Ala Met Leu Ile Ser Ser Lys Asp Cys Asp Pro Gln Leu		
	245	250 255
Leu His His Leu Cys Trp Gly Pro Leu Arg Met Phe Asn Glu His Gly		
	260	265 270
Met Glu Thr Ala Leu Ala Cys Trp Glu Trp Leu Leu Ala Gly Lys Asp		
	275	280 285
Gly Val Glu Val Pro Phe Leu Val Thr Trp His Thr Ile Asp Ala Asp		
	290	295 300
Ala Gln Ser Ser Ala Met Cys Cys Ala Gly Arg Pro Arg Thr His Pro		
	305	310 315 320
Gln Ala Ser Pro Thr Ser Pro Ala Cys Thr Arg Arg Thr Leu Ser Arg		
	325	330 335
Arg Ser Thr Gly		
	340	

<210> 649

<211> 214

<212> PRT

<213> Homo sapiens

<400> 649

Ala Val Arg Arg Gly Ala Gly Cys Pro Ala Pro Gly Val Arg Ala Arg
1 5 10 15

659

Gly Ala Met Ala His Val Gly Ser Arg Lys Arg Ser Arg Ser Arg Ser
 20 25 30
 Arg Ser Arg Gly Arg Gly Ser Glu Lys Arg Lys Lys Lys Ser Arg Lys
 35 40 45
 Asp Thr Ser Arg Asn Cys Ser Ala Ser Thr Ser Gln Gly Arg Lys Ala
 50 55 60
 Ser Thr Ala Pro Gly Ala Glu Glu Arg Ser Lys Gln Lys Ala Arg Arg
 65 70 75 80
 Arg Thr Arg Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser
 85 90 95
 Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Gly Arg Lys
 100 105 110
 Lys Arg Gly Lys Tyr Lys Asp Lys Arg Arg Lys Lys Lys Lys Lys Arg
 115 120 125
 Lys Lys Leu Lys Lys Lys Gly Lys Glu Lys Ala Glu Ala Gln Gln Val
 130 135 140
 Glu Ala Leu Pro Gly Pro Ser Leu Asp Gln Trp His Arg Ser Ala Gly
 145 150 155 160
 Glu Glu Glu Asp Gly Pro Val Leu Thr Asp Glu Gln Lys Ser Arg Ile
 165 170 175
 Gln Ala Met Lys Pro Met Thr Lys Glu Glu Trp Asp Ala Arg Gln Ser
 180 185 190
 Ile Ile Arg Lys Trp Trp Thr Leu Arg Arg Gly Ala Pro Gly Leu Leu
 195 200 205
 Arg Glu Met Ala Arg Ser
 210

<210> 650

<211> 401

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (375)

<223> Xaa equals any of the naturally occurring L-amino acids

660

<220>

<221> SITE

<222> (396)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 650

Gly	Arg	Val	Gly	Gln	Lys	Ser	Gln	Lys	Pro	Arg	Asp	Ser	Ser	Val	Glu
1				5					10					15	
Val	Arg	Ser	Asp	Trp	Glu	Val	Lys	Glu	Glu	Met	Asp	Phe	Pro	Gln	Leu
			20					25					30		
Met	Lys	Met	Arg	Tyr	Leu	Glu	Val	Ser	Glu	Pro	Gln	Asp	Ile	Glu	Cys
		35					40					45			
Cys	Gly	Ala	Leu	Glu	Tyr	Tyr	Asp	Lys	Ala	Phe	Asp	Arg	Ile	Thr	Thr
	50					55					60				
Arg	Ser	Glu	Lys	Pro	Leu	Arg	Ser	Ile	Lys	Arg	Ile	Phe	His	Thr	Val
65					70					75					80
Thr	Thr	Thr	Asp	Asp	Pro	Val	Ile	Arg	Lys	Leu	Ala	Lys	Thr	Gln	Gly
			85						90					95	
Asn	Val	Phe	Ala	Thr	Asp	Ala	Ile	Leu	Ala	Thr	Leu	Met	Ser	Cys	Thr
			100					105					110		
Arg	Ser	Val	Tyr	Ser	Trp	Asp	Ile	Val	Val	Gln	Arg	Val	Gly	Ser	Lys
		115					120					125			
Leu	Phe	Phe	Asp	Lys	Arg	Asp	Asn	Ser	Asp	Phe	Asp	Leu	Leu	Thr	Val
	130						135				140				
Ser	Glu	Thr	Ala	Asn	Glu	Pro	Pro	Gln	Asp	Glu	Gly	Asn	Ser	Phe	Asn
145					150					155					160
Ser	Pro	Arg	Asn	Leu	Ala	Met	Glu	Ala	Thr	Tyr	Ile	Asn	His	Asn	Phe
			165						170					175	
Ser	Gln	Gln	Cys	Leu	Arg	Met	Gly	Lys	Glu	Arg	Tyr	Asn	Phe	Pro	Asn
			180					185					190		
Pro	Asn	Pro	Phe	Val	Glu	Asp	Asp	Met	Asp	Lys	Asn	Glu	Ile	Ala	Ser
		195					200					205			
Val	Ala	Tyr	Arg	Tyr	Arg	Ser	Gly	Lys	Leu	Gly	Asp	Asp	Ile	Asp	Leu
	210					215					220				
Ile	Val	Arg	Cys	Glu	His	Asp	Gly	Val	Met	Thr	Gly	Ala	Asn	Gly	Glu
225					230					235					240

661

Val Ser Phe Ile Asn Ile Lys Thr Leu Asn Glu Trp Asp Ser Arg His
 245 250 255
 Cys Asn Gly Val Asp Trp Arg Gln Lys Leu Asp Ser Gln Arg Gly Ala
 260 265 270
 Val Ile Ala Thr Glu Leu Lys Asn Asn Ser Tyr Lys Leu Ala Arg Trp
 275 280 285
 Thr Cys Cys Ala Leu Leu Ala Gly Ser Glu Tyr Leu Lys Leu Gly Tyr
 290 295 300
 Val Ser Arg Tyr His Val Lys Asp Ser Ser Arg His Val Ile Leu Gly
 305 310 315 320
 Thr Gln Gln Phe Lys Pro Asn Glu Phe Ala Ser Gln Ile Asn Leu Ser
 325 330 335
 Val Glu Asn Ala Trp Gly Ile Leu Arg Cys Val Ile Asp Ile Cys Met
 340 345 350
 Lys Leu Glu Glu Gly Lys Tyr Leu Ile Leu Lys Asp Pro Asn Lys Gln
 355 360 365
 Val Ile Arg Val Tyr Ser Xaa Pro Asp Gly Thr Phe Ser Ser Asp Glu
 370 375 380
 Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Xaa Glu Glu Glu Glu
 385 390 395 400
 Thr

<210> 651

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

662

<400> 651

Thr Glu Leu His Thr Gly Arg Glu Thr Lys Asn Ile Thr Ser Ile Leu
 1 5 10 15

Val Ser Trp Xaa Leu Phe Phe Leu Arg Glu Ser His Ser Val Ala Gly
 20 25 30

Leu Glu Tyr Ser Gly Xaa Gly Ser Arg Ala His Cys Asn Pro Leu Ala
 35 40 45

Ser Arg Gly Ser Ser Gln Ser Pro Ala Phe
 50 55

<210> 652

<211> 211

<212> PRT

<213> Homo sapiens

<400> 652

Ser Thr Ser Trp Phe Ser Leu Trp Met Glu Arg Ala Trp Ala Ser Leu
 1 5 10 15

Gly Glu Gly Glu Ala Arg Gly Ala Gly Leu Glu Trp Glu Thr Cys Trp
 20 25 30

Pro Val Gly Leu Thr Cys Pro Ser Val Leu Ser Pro His Ile Leu Leu
 35 40 45

Pro Ser Ser Ser His Thr His Thr Phe Gln Gly Trp Gly Glu Pro Asp
 50 55 60

Cys Gln Asp Pro Arg Ser Gly Ala Pro Tyr Ile Pro Gln Ser Gly Ile
 65 70 75 80

His Phe Leu Val Pro Gly Met Ala Met Gly Thr Leu Pro Leu Cys Arg
 85 90 95

Asp Gln Trp Asp Gly Leu Tyr Leu Ser Phe Ser Lys Arg Gly Leu Cys
 100 105 110

Pro Pro Gly Val Ser Leu Pro Thr Ser Leu Leu Arg Gly Asn Asn Arg
 115 120 125

Arg Met Gly Phe Leu Leu Trp Gly Glu Phe Ile Pro Ser Pro Arg Val
 130 135 140

Pro Ser His Thr Val Ile Leu Pro Ser Cys Pro Arg Arg Pro Ala Ala
 145 150 155 160

663

Gly Lys Glu Leu Pro Arg Lys His Ser Leu Gly Gln Val Leu Ala Phe
 165 170 175

Leu Asn Phe Arg Asp Ser Tyr Arg Lys Glu Gly Asn Lys Glu Phe Ser
 180 185 190

Ser Ala Ala Pro Phe Pro Thr Pro Thr Pro Ser Leu Gln Gly Pro Leu
 195 200 205

Pro Ala Ser
 210

<210> 653

<211> 286

<212> PRT

<213> Homo sapiens

<400> 653

Ser Arg Arg Pro Pro Ala Ala Cys Ser Arg Leu Leu Arg Glu Pro Ser
 1 5 10 15

Arg Pro Gly Ala Pro His Arg Arg Gly Thr Gly Arg Ser Cys Ser Gly
 20 25 30

Thr Arg Gly Arg Trp Asp Thr Gly Gly Leu Asp Thr Ser Leu Gly Arg
 35 40 45

Asn Arg Leu Arg Phe Ser Pro Glu Gly Lys Arg Ala Pro Gly Ala Gly
 50 55 60

Pro Gly Gly Ser Ile Arg Ile Tyr Ser Met Arg Phe Cys Pro Phe Ala
 65 70 75 80

Glu Arg Thr Arg Leu Val Leu Lys Ala Lys Gly Ile Arg His Glu Val
 85 90 95

Ile Asn Ile Asn Leu Lys Asn Lys Pro Glu Trp Phe Phe Lys Lys Asn
 100 105 110

Pro Phe Gly Leu Val Pro Val Leu Glu Asn Ser Gln Gly Gln Leu Ile
 115 120 125

Tyr Glu Ser Ala Ile Thr Cys Glu Tyr Leu Asp Glu Ala Tyr Pro Gly
 130 135 140

Lys Lys Leu Leu Pro Asp Asp Pro Tyr Glu Lys Ala Cys Gln Lys Met
 145 150 155 160

Ile Leu Glu Leu Phe Ser Lys Val Pro Ser Leu Val Gly Ser Phe Ile

165

175

Lys Glu Phe Thr Lys Leu Glu Glu Val Leu Thr Asn Lys Lys Thr Thr
195 200 205

Phe Phe Gly Gly Asn Ser Ile Ser Met Ile Asp Tyr Leu Ile Trp Pro
210 215 220

Trp Phe Glu Arg Leu Glu Ala Met Lys Leu Asn Glu Cys Val Asp His
225 230 235 240

Thr Pro Lys Leu Lys Leu Trp Met Ala Ala Met Lys Glu Asp Pro Thr
245 250 255

Val Ser Ala Leu Leu Thr Ser Glu Lys Asp Trp Gln Gly Phe Leu Glu
260 265 270

Leu Tyr Leu Gln Asn Ser Pro Glu Ala Cys Asp Tyr Gly Leu
275 280 285

<213> Homo sapiens

Ser Gln Ala Arg Gly Gln Gly Gln Gly Gly Arg Ser Trp Gly Ala Gly
1 5 10 15

Ala Leu Gly Gln Ser Gly Pro Pro Pro Ala Ala Cys Pro Val Gly Leu
20 25 30

Trp Lys Gly Ala Leu Gly Ser Arg Cys Trp Glu Pro Glu Leu Gly Arg
35 40 45

Ala Trp Ala Gly Gly Val Pro Pro Ser His Lys Gly Trp Ala Glu Thr
50 55 60

Gln Leu Ser Ala Ala Trp Arg Phe Pro Phe Trp Gly Gly Leu Arg Ser
65 70 75 80

Cys His Leu Val Leu Cys Pro His Arg Asn Gln Arg
85 90

665

<210> 655

<211> 281

<212> PRT

<213> Homo sapiens

<400> 655

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Pro Pro Leu Ala Pro Thr Ala Thr Ala Gly Thr Leu Ala Ala Ser Glu
  1              5              10              15

Gly Arg Trp Lys Ser Met Arg Lys Ser Pro Leu Gly Gly Gly Gly Gly
      20              25              30

Ser Gly Ala Ser Ser Gln Ala Ala Cys Leu Lys Gln Ile Leu Leu Leu
      35              40              45

Gln Leu Asp Leu Ile Glu Gln Gln Gln Gln Gln Leu Gln Ala Lys Glu
      50              55              60

Lys Glu Ile Glu Glu Leu Lys Ser Glu Arg Asp Thr Leu Leu Ala Arg
      65              70              75              80

Ile Glu Arg Met Glu Arg Arg Met Gln Leu Val Lys Lys Asp Asn Glu
      85              90              95

Lys Glu Arg His Lys Leu Phe Gln Gly Tyr Glu Thr Glu Glu Arg Glu
      100             105             110

Glu Thr Glu Leu Ser Glu Lys Ile Lys Leu Glu Cys Gln Pro Glu Leu
      115             120             125

Ser Glu Thr Ser Gln Thr Leu Pro Pro Lys Pro Phe Ser Cys Gly Arg
      130             135             140

Ser Gly Lys Gly His Lys Arg Lys Ser Pro Phe Gly Ser Thr Glu Arg
      145             150             155             160

Lys Thr Pro Val Lys Lys Leu Ala Pro Glu Phe Ser Lys Val Lys Thr
      165             170             175

Lys Thr Pro Lys His Ser Pro Ile Lys Glu Glu Pro Cys Gly Ser Leu
      180             185             190

Ser Glu Thr Val Cys Lys Arg Glu Leu Arg Ser Gln Glu Thr Pro Glu
      195             200             205

Lys Pro Arg Ser Ser Val Asp Thr Pro Pro Arg Leu Ser Thr Pro Gln
      210             215             220

Lys Gly Pro Ser Thr His Pro Lys Glu Lys Ala Phe Ser Ser Glu Ile
      225             230             235             240

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666

Glu	Asp	Leu	Pro	Tyr	Leu	Ser	Thr	Thr	Glu	Met	Tyr	Leu	Cys	Arg	Trp
				245					250					255	
His	Gln	Pro	Pro	Pro	Ser	Pro	Leu	Pro	Leu	Arg	Glu	Ser	Ser	Pro	Lys
				260				265					270		
Lys	Glu	Glu	Thr	Val	Ala	Ser	Lys	Ala							
				275			280								

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<210> 656
<211> 258
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<400> 656
Glu Lys Lys Leu Ser Cys Leu Gln Ala Ala Val Thr Ala Ser Arg Thr
  1                      5                      10                      15

Leu Ser Ala Leu Leu Pro Thr Cys Thr Pro Gly Leu Ser Ile Pro Val
      20                      25                      30

Pro Pro Asp Lys Arg Gly Gln Val Ser Gln Glu Leu Pro Pro Pro Cys
      35                      40                      45

Ser Thr Ala Lys Lys Thr Pro Phe His Asp Phe Pro Pro Arg Pro Arg
      50                      55                      60

Ser Tyr Leu Pro Thr Pro Leu Ser Glu Ser Pro Gly Thr His Arg Gly
  65                      70                      75                      80

Ala His His Ile Pro Leu Ser Thr Leu Pro Ala Ser Pro Thr Cys His
      85                      90                      95

Pro Leu Pro Cys Pro Ser Pro Thr Pro Gln Leu Gln Glu Trp Lys Lys
      100                      105                      110

Ser Pro Arg Ser Ser Gly Ser Pro Ser Pro His Pro Glu Leu Arg Leu
      115                      120                      125

Gly Tyr Leu Leu Gln His Pro Cys Gln Asp Phe Ser Thr Leu Leu His
      130                      135                      140

Thr Ser Arg Asp Arg Glu Leu Thr Thr Ser Gln Gly Ser Leu Leu Pro
  145                      150                      155                      160

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667

Leu Asp Cys Ser Asp Phe Ser Ile Ser Leu Ile His Arg Arg Gly Phe
 165 170 175
 Cys Phe Ser Val Ala Leu Ser Met Xaa Ser His Leu Pro Thr Leu Leu
 180 185 190
 Pro Gly Val Leu Arg Ser His Ile Asp Ser Pro Glu Pro Ser Ser Leu
 195 200 205
 Gln Ala Lys Glu Ser Arg Arg His Arg Gly His Phe Cys Cys Asn Lys
 210 215 220
 Val Ser Cys Leu Phe Thr Val Arg Thr Phe Leu Ser Ile Pro Ser Arg
 225 230 235 240
 Leu Gly Gln Gly Asp Ser Gln Met His Thr His Lys Tyr Ser Val Leu
 245 250 255
 Lys Leu

<210> 657

<211> 485

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 657

Ser Leu Ala Met Ala Ser Phe Ser Ala Glu Thr Asn Ser Thr Asp Leu
 1 5 10 15
 Leu Ser Gln Pro Trp Asn Glu Pro Pro Val Ile Leu Ser Met Val Ile
 20 25 30
 Leu Ser Leu Thr Phe Leu Leu Gly Leu Pro Gly Asn Gly Leu Val Leu
 35 40 45
 Trp Val Ala Gly Leu Lys Met Gln Arg Thr Val Asn Thr Ile Trp Phe
 50 55 60
 Leu His Leu Thr Leu Ala Asp Leu Leu Cys Cys Leu Ser Leu Pro Phe
 65 70 75 80
 Ser Leu Ala His Leu Ala Leu Gln Gly Gln Trp Pro Tyr Gly Arg Phe

669

355 360 365
 Gly Arg Phe Ala Lys Ser Gln Ser Lys Thr Phe Arg Val Ala Val Val
 370 375 380
 Val Val Ala Val Phe Leu Val Cys Trp Thr Pro Tyr His Ile Phe Gly
 385 390 395 400
 Val Leu Ser Leu Leu Thr Asp Pro Glu Thr Pro Leu Gly Lys Thr Leu
 405 410 415
 Met Ser Trp Asp His Val Cys Ile Ala Leu Ala Ser Ala Asn Ser Cys
 420 425 430
 Phe Asn Pro Phe Leu Tyr Ala Leu Leu Gly Lys Asp Phe Arg Lys Lys
 435 440 445
 Ala Arg Gln Ser Ile Gln Gly Ile Leu Glu Ala Ala Phe Ser Glu Glu
 450 455 460
 Leu Thr Arg Ser Thr His Cys Pro Ser Asn Asn Val Ile Ser Glu Arg
 465 470 475 480
 Asn Ser Thr Thr Val
 485

<210> 658
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 658
 Gln Arg Tyr Val Ile Asn Pro Asn Ala Gln Pro Asn Cys Tyr Val Ile
 1 5 10 15
 Pro Ile Pro Ile Leu Cys Asn Ile Cys Ser Phe Leu Glu Arg Gly Tyr
 20 25 30
 Val Ser Arg Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu
 35 40 45
 Ala Glu Ala Gly Gly Leu Pro Glu Val Arg Ser
 50 55

<210> 659
 <211> 333
 <212> PRT

670

<213> Homo sapiens

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (260)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 659

Ser	Thr	Glu	Arg	Asp	Phe	Phe	Met	Arg	Met	Lys	Cys	Thr	Val	Thr	Asn
1				5					10					15	

Arg	Gly	Arg	Thr	Val	Asn	Leu	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu	His
			20					25					30		

Cys	Thr	Gly	Gln	Val	Lys	Val	Tyr	Asn	Asn	Cys	Pro	Pro	His	Asn	Ser
		35					40					45			

Leu	Cys	Gly	Tyr	Lys	Glu	Pro	Leu	Leu	Ser	Cys	Leu	Ile	Ile	Met	Cys
	50					55					60				

Glu	Pro	Ile	Gln	His	Pro	Ser	His	Met	Asp	Ile	Pro	Leu	Asp	Ser	Lys
65					70					75					80

Thr	Phe	Leu	Ser	Arg	His	Ser	Met	Asp	Met	Lys	Phe	Thr	Tyr	Cys	Asp
				85					90					95	

Asp	Arg	Ile	Thr	Glu	Leu	Ile	Gly	Tyr	His	Pro	Glu	Glu	Leu	Leu	Gly
			100					105					110		

Arg	Ser	Ala	Tyr	Glu	Phe	Tyr	His	Ala	Leu	Asp	Ser	Glu	Asn	Met	Thr
		115					120					125			

Lys	Ser	His	Gln	Asn	Leu	Cys	Thr	Lys	Gly	Gln	Val	Val	Ser	Gly	Gln
	130					135					140				

Tyr	Arg	Met	Leu	Ala	Lys	His	Gly	Gly	Tyr	Val	Trp	Leu	Glu	Thr	Gln
145					150					155					160

Gly	Thr	Val	Ile	Tyr	Asn	Pro	Arg	Asn	Leu	Gln	Pro	Gln	Cys	Ile	Met
				165					170					175	

Cys	Val	Asn	Tyr	Val	Leu	Ser	Glu	Ile	Xaa	Lys	Asn	Asp	Val	Val	Phe
		180						185					190		

Ser	Met	Asp	Gln	Thr	Glu	Ser	Leu	Phe	Lys	Pro	His	Leu	Met	Ala	Met
		195					200					205			

671

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Asn Ser Ile Phe Asp Ser Ser Gly Lys Gly Ala Val Ser Glu Lys Ser
 210                215                220

Asn Phe Leu Phe Thr Lys Leu Lys Glu Glu Pro Glu Glu Leu Ala Gln
225                230                235                240

Leu Ala Pro Thr Pro Gly Asp Ala Ile Ile Ser Leu Asp Phe Gly Asn
                245                250                255

Gln Asn Phe Xaa Glu Ser Ser Ala Tyr Gly Lys Ala Ile Leu Pro Pro
                260                265                270

Ser Gln Pro Trp Ala Thr Glu Leu Arg Ser His Ser Thr Gln Ser Glu
                275                280                285

Leu Gly Ala Cys Leu Pro Ser Pro Cys Pro Arg Gln Leu Pro Arg Ala
 290                295                300

Ala Pro Pro Pro Val Pro Pro Ala Ala Ala Ala Ala Ala Pro Arg Pro
305                310                315                320

Ile Ala Leu Lys Thr Ile Thr His Leu Trp Ile Thr Thr
                325                330

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<210> 660

<211> 185

<212> PRT

<213> Homo sapiens

<400> 660

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Gln Ala Glu Ala Glu His Arg His Arg Pro Asp Arg Arg Ala Cys Cys
 1                5                10                15

His Leu Pro Gly Arg Ala Val Thr Gly Met Asp Pro Val Ala Arg Arg
                20                25                30

Leu Leu Trp Asp Thr Val Ala Arg Ala Arg Glu Ser Gly Lys Ala Ile
 35                40                45

Ile Ile Thr Ser His Ser Met Glu Glu Cys Glu Ala Leu Cys Thr Arg
 50                55                60

Leu Ala Ile Met Val Gln Gly Gln Phe Lys Cys Leu Gly Ser Pro Gln
 65                70                75                80

His Leu Lys Ser Lys Phe Gly Ser Gly Tyr Ser Leu Arg Ala Lys Val
                85                90                95

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672

Gln Ser Glu Gly Gln Gln Glu Ala Leu Glu Glu Phe Lys Ala Phe Val
 100 105 110

Asp Leu Thr Phe Pro Gly Ser Val Leu Glu Asp Glu His Gln Gly Met
 115 120 125

Val His Tyr His Leu Pro Gly Arg Asp Leu Ser Trp Ala Lys Val Phe
 130 135 140

Gly Ile Leu Glu Lys Ala Lys Glu Lys Tyr Gly Val Asp Asp Tyr Ser
 145 150 155 160

Val Ser Gln Ile Ser Leu Glu Gln Val Phe Leu Ser Phe Ala His Leu
 165 170 175

Gln Pro Pro Thr Ala Glu Glu Gly Arg
 180 185

<210> 661
 <211> 390
 <212> PRT
 <213> Homo sapiens

<400> 661
 Gly Arg Ala Pro Lys Glu Ala Glu Gly Ala Glu Asp Arg Gln Pro Ala
 1 5 10 15

Ser Arg Arg Gly Ala Gly Thr Thr Ala Ala Met Ala Ala Ser Gly Pro
 20 25 30

Gly Cys Arg Ser Trp Cys Leu Cys Pro Glu Val Pro Ser Ala Thr Phe
 35 40 45

Phe Thr Ala Leu Leu Ser Leu Leu Val Ser Gly Pro Arg Leu Phe Leu
 50 55 60

Leu Gln Gln Pro Leu Ala Pro Ser Gly Leu Thr Leu Lys Ser Glu Ala
 65 70 75 80

Leu Arg Asn Trp Gln Val Tyr Arg Leu Val Thr Tyr Ile Phe Val Tyr
 85 90 95

Glu Asn Pro Ile Ser Leu Leu Cys Gly Ala Ile Ile Ile Trp Arg Phe
 100 105 110

Ala Gly Asn Phe Glu Arg Thr Val Gly Thr Val Arg His Cys Phe Phe
 115 120 125

Thr Val Ile Phe Ala Ile Phe Ser Ala Ile Ile Phe Leu Ser Phe Glu

130		135		140
Ala Val Ser Ser Leu Ser Lys Leu Gly Glu Val Glu Asp Ala Arg Gly				
145		150		155 160
Phe Thr Pro Val Ala Phe Ala Met Leu Gly Val Thr Thr Val Arg Ser				
	165		170	175
Arg Met Arg Arg Ala Leu Val Phe Gly Met Val Val Pro Ser Val Leu				
	180		185	190
Val Pro Trp Leu Leu Leu Gly Ala Ser Trp Leu Ile Pro Gln Thr Ser				
	195		200	205
Phe Leu Ser Asn Val Cys Gly Leu Ser Ile Gly Leu Ala Tyr Gly Cys				
	210		215	220
Thr Tyr Cys Tyr Ser Ile Asp Leu Ser Glu Arg Val Ala Leu Lys Leu				
	225		230	235 240
Asp Gln Thr Phe Pro Phe Ser Leu Met Arg Arg Ile Ser Val Phe Lys				
	245		250	255
Tyr Val Ser Gly Ser Ser Ala Glu Arg Arg Ala Ala Gln Ser Arg Lys				
	260		265	270
Leu Asn Pro Val Pro Gly Ser Tyr Pro Thr Gln Ser Cys His Pro His				
	275		280	285
Leu Ser Pro Ser His Pro Val Ser Gln Thr Gln His Ala Ser Gly Gln				
	290		295	300
Lys Leu Ala Ser Trp Pro Ser Cys Thr Pro Gly His Met Pro Thr Leu				
	305		310	315 320
Pro Pro Tyr Gln Pro Ala Ser Gly Leu Cys Tyr Val Gln Asn His Phe				
	325		330	335
Gly Pro Asn Pro Thr Ser Ser Ser Val Tyr Pro Ala Ser Ala Gly Thr				
	340		345	350
Ser Leu Gly Ile Gln Pro Pro Thr Pro Val Asn Ser Pro Gly Thr Val				
	355		360	365
Tyr Ser Gly Ala Leu Gly Thr Pro Gly Ala Ala Gly Ser Lys Glu Ser				
	370		375	380
Ser Arg Val Pro Met Pro				
385		390		

<210> 662

<211> 248

<212> PRT

<213> Homo sapiens

<400> 662

Glu	Leu	Tyr	Cys	Gly	Val	Leu	Pro	Arg	Ser	Pro	Trp	Phe	Leu	Ser	Glu	1	5	10	15
Arg	Arg	Arg	Gln	Met	Ala	Asp	Phe	Asp	Thr	Tyr	Asp	Asp	Arg	Ala	Tyr	20	25	30	
Ser	Ser	Phe	Gly	Gly	Gly	Arg	Gly	Ser	Arg	Gly	Ser	Ala	Gly	Gly	His	35	40	45	
Gly	Ser	Arg	Ser	Gln	Lys	Glu	Leu	Pro	Thr	Glu	Pro	Pro	Tyr	Thr	Ala	50	55	60	
Tyr	Val	Gly	Asn	Leu	Pro	Phe	Asn	Thr	Val	Gln	Gly	Asp	Ile	Asp	Ala	65	70	75	80
Ile	Phe	Lys	Asp	Leu	Ser	Ile	Arg	Ser	Val	Arg	Leu	Val	Arg	Asp	Lys	85	90	95	
Asp	Thr	Asp	Lys	Phe	Lys	Gly	Phe	Cys	Tyr	Val	Glu	Phe	Asp	Glu	Val	100	105	110	
Asp	Ser	Leu	Lys	Glu	Ala	Leu	Thr	Tyr	Asp	Gly	Ala	Leu	Leu	Gly	Asp	115	120	125	
Arg	Ser	Leu	Arg	Val	Asp	Ile	Ala	Glu	Gly	Arg	Lys	Gln	Asp	Lys	Gly	130	135	140	
Gly	Phe	Gly	Phe	Arg	Lys	Gly	Gly	Pro	Asp	Asp	Arg	Gly	Phe	Arg	Asp	145	150	155	160
Asp	Phe	Leu	Gly	Gly	Arg	Gly	Gly	Ser	Arg	Pro	Gly	Asp	Arg	Arg	Thr	165	170	175	
Gly	Pro	Pro	Met	Gly	Ser	Arg	Phe	Arg	Asp	Gly	Pro	Pro	Leu	Arg	Gly	180	185	190	
Ser	Asn	Met	Asp	Phe	Arg	Glu	Pro	Thr	Glu	Glu	Glu	Arg	Ala	Gln	Arg	195	200	205	
Pro	Arg	Leu	Gln	Leu	Lys	Pro	Arg	Thr	Val	Ala	Thr	Pro	Leu	Asn	Gln	210	215	220	
Val	Ala	Asn	Pro	Asn	Ser	Ala	Ile	Phe	Gly	Gly	Ala	Arg	Pro	Arg	Glu	225	230	235	240

675

Glu Val Val Gln Lys Glu Gln Glu
245

<210> 663

<211> 616

<212> PRT

<213> Homo sapiens

<400> 663

Lys Glu Glu Glu Ile Val Asp Trp Trp Ser Lys Phe Tyr Ala Ser Ser
1 5 10 15

Gly Glu His Glu Lys Cys Gly Gln Tyr Ile Gln Lys Gly Tyr Ser Lys
20 25 30

Leu Lys Ile Tyr Asn Cys Glu Leu Glu Asn Val Ala Glu Phe Glu Gly
35 40 45

Leu Thr Asp Phe Ser Asp Thr Phe Lys Leu Tyr Arg Gly Lys Ser Asp
50 55 60

Glu Asn Glu Asp Pro Ser Val Val Gly Glu Phe Lys Gly Ser Phe Arg
65 70 75 80

Ile Tyr Pro Leu Pro Asp Asp Pro Ser Val Pro Ala Pro Pro Arg Gln
85 90 95

Phe Arg Glu Leu Pro Asp Ser Val Pro Gln Glu Cys Thr Val Arg Ile
100 105 110

Tyr Ile Val Arg Gly Leu Glu Leu Gln Pro Gln Asp Asn Asn Gly Leu
115 120 125

Cys Asp Pro Tyr Ile Lys Ile Thr Leu Gly Lys Lys Val Ile Glu Asp
130 135 140

Arg Asp His Tyr Ile Pro Asn Thr Leu Asn Pro Val Phe Gly Arg Met
145 150 155 160

Tyr Glu Leu Ser Cys Tyr Leu Pro Gln Glu Lys Asp Leu Lys Ile Ser
165 170 175

Val Tyr Asp Tyr Asp Thr Phe Thr Arg Asp Glu Lys Val Gly Glu Thr
180 185 190

Ile Ile Asp Leu Glu Asn Arg Phe Leu Ser Arg Phe Gly Ser His Cys
195 200 205

Gly Ile Pro Glu Glu Tyr Cys Val Ser Gly Val Asn Thr Trp Arg Asp
 210 215 220

Gln Leu Arg Pro Thr Gln Leu Leu Gln Asn Val Ala Arg Phe Lys Gly
 225 230 235 240

Phe Pro Gln Pro Ile Leu Ser Glu Asp Gly Ser Arg Ile Arg Tyr Gly
 245 250 255

Gly Arg Asp Tyr Ser Leu Asp Glu Phe Glu Ala Asn Lys Ile Leu His
 260 265 270

Gln His Leu Gly Ala Pro Glu Glu Arg Leu Ala Leu His Ile Leu Arg
 275 280 285

Thr Gln Gly Leu Val Pro Glu His Val Glu Thr Arg Thr Leu His Ser
 290 295 300

Thr Phe Gln Pro Asn Ile Ser Gln Gly Lys Leu Gln Met Trp Val Asp
 305 310 315 320

Val Phe Pro Lys Ser Leu Gly Pro Pro Gly Pro Pro Phe Asn Ile Thr
 325 330 335

Pro Arg Lys Ala Lys Lys Tyr Tyr Leu Arg Val Ile Ile Trp Asn Thr
 340 345 350

Lys Asp Val Ile Leu Asp Glu Lys Ser Ile Thr Gly Glu Glu Met Ser
 355 360 365

Asp Ile Tyr Val Lys Gly Trp Ile Pro Gly Asn Glu Glu Asn Lys Gln
 370 375 380

Lys Thr Asp Val His Tyr Arg Ser Leu Asp Gly Glu Gly Asn Phe Asn
 385 390 395 400

Trp Arg Phe Val Phe Pro Phe Asp Tyr Leu Pro Ala Glu Gln Leu Cys
 405 410 415

Ile Val Ala Lys Lys Glu His Phe Trp Ser Ile Asp Gln Thr Glu Phe
 420 425 430

Arg Ile Pro Pro Arg Leu Ile Ile Gln Ile Trp Asp Asn Asp Lys Phe
 435 440 445

Ser Leu Asp Asp Tyr Leu Gly Phe Leu Glu Leu Asp Leu Arg His Thr
 450 455 460

Ile Ile Pro Ala Lys Ser Pro Glu Lys Cys Arg Leu Asp Met Ile Pro
 465 470 475 480

677

Asp Leu Lys Ala Met Asn Pro Leu Lys Ala Lys Thr Ala Ser Leu Phe
 485 490 495
 Glu Gln Lys Ser Met Lys Gly Trp Trp Pro Cys Tyr Ala Glu Lys Asp
 500 505 510
 Gly Ala Arg Val Met Ala Gly Lys Val Glu Met Thr Leu Glu Ile Leu
 515 520 525
 Asn Glu Lys Glu Ala Asp Glu Arg Pro Ala Gly Lys Gly Arg Asp Glu
 530 535 540
 Pro Asn Met Asn Pro Lys Leu Asp Leu Pro Asn Arg Pro Glu Thr Ser
 545 550 555 560
 Phe Leu Trp Phe Thr Asn Pro Cys Lys Thr Met Lys Phe Ile Val Trp
 565 570 575
 Arg Arg Phe Lys Trp Val Ile Ile Gly Leu Leu Phe Leu Leu Ile Leu
 580 585 590
 Leu Leu Phe Val Ala Val Leu Leu Tyr Ser Leu Pro Asn Tyr Leu Ser
 595 600 605
 Met Lys Ile Val Lys Pro Asn Val
 610 615

<210> 664
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 664
 Ala Arg Leu Phe Ser Gly Ala Ser Met Ser Met Ala Asp Arg His Gly
 1 5 10 15
 Gln Gly Ala Val Phe Thr Ile Gly Leu Met Cys Ser Gln Leu Phe Ser
 20 25 30
 Cys Trp Phe His Leu Asn Asn Gln Met Leu Val Leu Arg Pro Ser Met
 35 40 45
 Ile Asp Ile Ile Ile His Phe Asp Pro Ser Cys Pro Ser Leu Ser Leu
 50 55 60
 Ser Ser Pro Leu Cys Gly Phe Phe Leu Glu Thr Glu Arg Asn Pro Arg
 65 70 75 80
 Cys Trp His Gln Ala Tyr Ser Val Trp Pro Phe Gly Trp Thr Cys Tyr

678

				85						90					95				
Leu	Lys	Pro	Ser	Ala	Gln	Asn	Ile	Leu	Glu	Ser	Pro	His	Phe	Ser	Gly				
			100					105					110						
Leu	Leu	Lys	Leu	Tyr	Leu	Cys	Ile	Ile	Ala	Arg	Val	Val	His	Arg	Gln				
		115					120					125							
Arg	Arg	Ile	Arg	Leu	Phe	Ser	Phe												
		130				135													

<210> 665

<211> 78

<212> PRT

<213> Homo sapiens

<400> 665

Val	Cys	Pro	His	Pro	Ala	Met	Ala	Arg	Leu	Leu	Gln	Ala	Ser	Cys	Leu				
1				5					10					15					
Leu	Ser	Leu	Leu	Leu	Ala	Gly	Phe	Val	Ser	Gln	Ser	Arg	Gly	Gln	Glu				
			20					25					30						
Lys	Ser	Lys	Met	Asp	Cys	His	Gly	Gly	Ile	Ser	Gly	Thr	Ile	Tyr	Glu				
		35					40					45							
Tyr	Gly	Ala	Leu	Thr	Ile	Asp	Gly	Glu	Glu	Tyr	Ile	Pro	Phe	Lys	Gln				
	50					55					60								
Tyr	Ala	Gly	Lys	Tyr	Val	Leu	Phe	Val	Asn	Val	Ala	Ser	Tyr						
	65					70				75									

<210> 666

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 666

Ala	Ala	Met	Ser	Asn	Pro	Ser	Ala	Pro	Pro	Pro	Tyr	Glu	Asp	Arg	Asn				
1				5					10					15					
Pro	Leu	Tyr	Pro	Gly	Pro	Xaa	Pro	Pro	Gly	Gly	Tyr	Gly	Gln	Pro	Ser				

679

20	25	30
Val Leu Pro Gly Gly Tyr Pro Ala Tyr Pro Gly Tyr Pro Gln Pro Gly		
35	40	45
Tyr Gly His Pro Ala Gly Tyr Pro Gln Pro Met Pro Pro Thr His Pro		
50	55	60
Met Pro Met Asn Tyr Gly Pro Gly His Gly Tyr Asp Gly Glu Glu Arg		
65	70	75
Ala Val Ser Asp Ser Phe Gly Pro Gly Glu Trp Asp Asp Arg Lys Val		
85	90	95
Arg His Thr Phe Ile Arg Lys Val Tyr Ser Ile Ile Ser Val Gln Leu		
100	105	110
Leu Ile Thr Val Ala Ile Ile Ala Ile Phe Thr Phe Val Glu Pro Val		
115	120	125
Ser Ala Phe Val Arg Arg Asn Val Ala Val Tyr Tyr Val Ser Tyr Ala		
130	135	140
Val Phe Val Val Thr Tyr Leu Ile Leu Ala Cys Cys Gln Gly Pro Arg		
145	150	155
Arg Arg Phe Pro Trp Asn Ile Ile Leu Leu Thr Leu Phe Thr Phe Ala		
165	170	175
Met Gly Phe Met Thr Gly Thr Ile Ser Ser Met Tyr Gln Thr Lys Ala		
180	185	190
Val Ile Ile Ala Met Ile Ile Thr Ala Val Val Ser Ile Ser Val Thr		
195	200	205
Ile Phe Cys Phe Gln Thr Lys Val Asp Phe Thr Ser Cys Thr Gly Leu		
210	215	220
Phe Cys Val Leu Gly Ile Val Leu Leu Val Thr Gly Ile Val Thr Ser		
225	230	235
Ile Val Leu Tyr Phe Gln Tyr Val Tyr Trp Leu His Met Leu Tyr Ala		
245	250	255
Ala Leu Gly Ala Ile Cys Phe Thr Leu Phe Leu Ala Tyr Asp Thr Gln		
260	265	270
Leu Val Leu Gly Asn Arg Lys His Thr Ile Ser Pro Glu Asp Tyr Ile		
275	280	285
Thr Gly Ala Leu Gln Ile Tyr Thr Asp Ile Ile Tyr Ile Phe Thr Phe		

680

290 295 300
 Val Leu Gln Leu Met Gly Asp Arg Asn
 305 310

 <210> 667
 <211> 487
 <212> PRT
 <213> Homo sapiens

 <400> 667
 Pro Arg Gly Cys Trp Ser Ser Cys Leu Asp Ala Met Phe Arg Leu Asn
 1 5 10 15
 Ser Leu Ser Ala Leu Ala Glu Leu Ala Val Gly Ser Arg Trp Tyr His
 20 25 30
 Gly Gly Ser Gln Pro Ile Gln Ile Arg Arg Arg Leu Met Met Val Ala
 35 40 45
 Phe Leu Gly Ala Ser Ala Val Thr Ala Ser Thr Gly Leu Leu Trp Lys
 50 55 60
 Arg Ala His Ala Glu Ser Pro Pro Cys Val Asp Asn Leu Lys Ser Asp
 65 70 75 80
 Ile Gly Asp Lys Gly Lys Asn Lys Asp Glu Gly Asp Val Cys Asn His
 85 90 95
 Glu Lys Lys Thr Ala Asp Leu Ala Pro His Pro Glu Glu Lys Lys Lys
 100 105 110
 Lys Arg Ser Gly Phe Arg Asp Arg Lys Val Met Glu Tyr Glu Asn Arg
 115 120 125
 Ile Arg Ala Tyr Ser Thr Pro Asp Lys Ile Phe Arg Tyr Phe Ala Thr
 130 135 140
 Leu Lys Val Ile Ser Glu Pro Gly Glu Ala Glu Val Phe Met Thr Pro
 145 150 155 160
 Glu Asp Phe Val Arg Ser Ile Thr Pro Asn Glu Lys Gln Pro Glu His
 165 170 175
 Leu Gly Leu Asp Gln Tyr Ile Ile Lys Arg Phe Asp Gly Lys Lys Ile
 180 185 190
 Ser Gln Glu Arg Glu Lys Phe Ala Asp Glu Gly Ser Ile Phe Tyr Thr
 195 200 205

Leu	Gly	Glu	Cys	Gly	Leu	Ile	Ser	Phe	Ser	Asp	Tyr	Ile	Phe	Leu	Thr	210	215	220	
Thr	Val	Leu	Ser	Thr	Pro	Gln	Arg	Asn	Phe	Glu	Ile	Ala	Phe	Lys	Met	225	230	235	240
Phe	Asp	Leu	Asn	Gly	Asp	Gly	Glu	Val	Asp	Met	Glu	Glu	Phe	Glu	Gln	245	250	255	
Val	Gln	Ser	Ile	Ile	Arg	Ser	Gln	Thr	Ser	Met	Gly	Met	Arg	His	Arg	260	265	270	
Asp	Arg	Pro	Thr	Thr	Gly	Asn	Thr	Leu	Lys	Ser	Gly	Leu	Cys	Ser	Ala	275	280	285	
Leu	Thr	Thr	Tyr	Phe	Phe	Gly	Ala	Asp	Leu	Lys	Gly	Lys	Leu	Thr	Ile	290	295	300	
Lys	Asn	Phe	Leu	Glu	Phe	Gln	Arg	Lys	Leu	Gln	His	Asp	Val	Leu	Lys	305	310	315	320
Leu	Glu	Phe	Glu	Arg	His	Asp	Pro	Val	Asp	Gly	Arg	Ile	Thr	Glu	Arg	325	330	335	
Gln	Phe	Gly	Gly	Met	Leu	Leu	Ala	Tyr	Ser	Gly	Val	Gln	Ser	Lys	Lys	340	345	350	
Leu	Thr	Ala	Met	Gln	Arg	Gln	Leu	Lys	Lys	His	Phe	Lys	Glu	Gly	Lys	355	360	365	
Gly	Leu	Thr	Phe	Gln	Glu	Val	Glu	Asn	Phe	Phe	Thr	Phe	Leu	Lys	Asn	370	375	380	
Ile	Asn	Asp	Val	Asp	Thr	Ala	Leu	Ser	Phe	Tyr	His	Met	Ala	Gly	Ala	385	390	395	400
Ser	Leu	Asp	Lys	Val	Thr	Met	Gln	Gln	Val	Ala	Arg	Thr	Val	Ala	Lys	405	410	415	
Val	Glu	Leu	Ser	Asp	His	Val	Cys	Asp	Val	Val	Phe	Ala	Leu	Phe	Asp	420	425	430	
Cys	Asp	Gly	Asn	Gly	Glu	Leu	Ser	Asn	Lys	Glu	Phe	Val	Ser	Ile	Met	435	440	445	
Lys	Gln	Arg	Leu	Met	Arg	Gly	Leu	Glu	Lys	Pro	Lys	Asp	Met	Gly	Phe	450	455	460	
Thr	Arg	Leu	Met	Gln	Ala	Met	Trp	Lys	Cys	Ala	Gln	Glu	Thr	Ala	Trp	465	470	475	480

682

Asp Phe Ala Leu Pro Lys Gln
485

<210> 668

<211> 106

<212> PRT

<213> Homo sapiens

<400> 668

Gly Gly Val Gly Ala Glu Pro Asp Trp Ser Gly Gln Arg His Ala Gly
1 5 10 15

Ala Val Pro Arg Ala Ser Pro Ala Val Ala Val Ala Val Ala Gly Pro
20 25 30

Trp Gly Glu Asp Gly Phe Leu Arg Gly Arg Gly Val Arg Gln Pro Ala
35 40 45

Ala Gln Pro Leu Ser Ser Pro Gln Asp Asp His Gly Arg Ala Ala Arg
50 55 60

His Leu Arg Gln His Ala Gly Arg Val Ala Leu Leu Ala Cys Arg Ser
65 70 75 80

Leu Ser Leu Arg Gly Arg Gln Gln Ser Gln Glu Ala Gly Met Lys Val
85 90 95

Ala Leu Ser Pro Pro Gln Gly Ser Arg Thr
100 105

<210> 669

<211> 105

<212> PRT

<213> Homo sapiens

<400> 669

Phe Gly Thr Ser Arg Arg Glu Thr Ser Val Val Pro Cys Arg Val Ala
1 5 10 15

Ser Val Leu Arg Arg Pro Ser Pro Ser Phe Ala Ile Ala Arg His Arg
20 25 30

Thr Pro Ser Leu Glu Ile Cys Arg His Leu Asp Phe Ser His Ala Val
35 40 45

Cys Gln Val Ser Ala Ala Thr Arg Arg Gln Gly Ala Gly Pro Cys Gly

683

50 55 60
 Leu Cys Cys Thr Ser Asp Gly Phe Ala Pro Ala Ser Ala Leu Ser Leu
 65 70 75 80
 Leu Gln His Ser Asp Leu His Pro Leu Arg Gly Phe His Cys Pro Arg
 85 90 95
 Gly Glu Asn Ala Pro Gly Ser Val Thr
 100 105

 <210> 670
 <211> 285
 <212> PRT
 <213> Homo sapiens

 <400> 670
 Thr Gly Trp Ser His Arg Gly Lys Lys Met Ser Pro Arg Thr Pro Gly
 1 5 10 15
 Phe Thr Pro Ser Pro Gln Arg Cys Leu His His Arg Cys Ser Thr Pro
 20 25 30
 Ala Ala Ala Ala Ala Ser Ala Glu Cys Gly Pro Ser Gly Ala Thr Leu
 35 40 45
 Ile Arg Ile Pro Leu His Arg Val Gln Pro Gly Arg Arg Ile Leu Asn
 50 55 60
 Leu Leu Arg Gly Trp Arg Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala
 65 70 75 80
 Pro Ser Pro Glu Asp Lys Pro Ile Phe Val Pro Leu Ser Asn Tyr Lys
 85 90 95
 Gly Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Thr Pro Ser Ser
 100 105 110
 Gln Trp Asp Gln Phe Ala Ile Gln Tyr Gly Thr Gly Arg Val His Gly
 115 120 125
 Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile Lys Gly Ala Ser
 130 135 140
 Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu Val Phe Ala Phe
 145 150 155 160
 Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro Ile Leu Ser Val
 165 170 175

Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu Gln Gly Leu Leu
 180 185 190
 Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp Pro Glu Glu Pro
 195 200 205
 Asp Gly Gly Glu Leu Val Leu Gly Gly Ser Asp Pro Ala His Tyr Ile
 210 215 220
 Pro Pro Leu Thr Phe Val Pro Val Thr Val Pro Ala Tyr Trp Gln Ile
 225 230 235 240
 His Met Glu Arg Val Lys Val Gly Pro Gly Leu Thr Leu Cys Ala Lys
 245 250 255
 Gly Cys Ala Ala Ile Leu Asp Thr Gly Thr Ser Leu Ile Thr Gly Pro
 260 265 270
 Thr Glu Glu Ile Arg Ala Leu His Ala Ala Ile Gly Gly
 275 280 285

<210> 671

<211> 157

<212> PRT

<213> Homo sapiens

<400> 671

Tyr Glu Glu Gln Ala Phe Gln Asp Leu Ser Gly Gly Asp Pro Pro Gly
 1 5 10 15
 Gly Ser Thr Ser His Leu Met Trp Lys Arg Met Lys Asn Leu Arg Gly
 20 25 30
 Gly Ser Cys Pro Leu Met Pro Asp Lys Pro Leu Ser Ala Asn Val Pro
 35 40 45
 Asn Asp Lys Phe Thr Gln Asn Pro Met Arg Gly Leu Gly His Pro Leu
 50 55 60
 Arg His Leu Pro Leu Pro Gln Pro Pro Ser Ala Ile Ser Pro Gly Glu
 65 70 75 80
 Asn Ser Lys Ser Arg Phe Pro Pro Gln Cys Tyr Ala Thr Gln Tyr Gln
 85 90 95
 Asp Tyr Ser Leu Ser Ser Ala His Lys Val Ser Gly Met Ala Ser Arg
 100 105 110

685

Leu Leu Gly Pro Ser Phe Glu Ser Tyr Leu Leu Pro Glu Leu Thr Arg
 115 120 125

Tyr Asp Cys Glu Val Asn Val Pro Val Leu Gly Ser Ser Thr Leu Leu
 130 135 140

Gln Gly Gly Asp Leu Leu Arg Ala Leu Asp Gln Ala Thr
 145 150 155

<210> 672

<211> 307

<212> PRT

<213> Homo sapiens

<400> 672

His Tyr Val Gly Gly Ala Val Arg Arg Gly Arg Gly Gly Gly Ser Gly
 1 5 10 15

Asn Gly Gly Gly Arg Arg Leu Gly Gly Arg Ala Gly Gly Ser His Gly
 20 25 30

Gly Gly Asp Thr Gly Gly Ser Gly Gly Gly Gly Lys Arg Ser Arg Asp
 35 40 45

Arg Gly Arg Asn Arg Val Trp Arg His Arg Arg Gly Ser Ala Glu Ser
 50 55 60

Glu Gly Ala Lys Ile Asp Ala Ser Lys Asn Glu Glu Asp Glu Gly His
 65 70 75 80

Ser Asn Ser Ser Pro Arg His Ser Glu Ala Ala Thr Ala Gln Arg Glu
 85 90 95

Glu Trp Lys Met Phe Ile Gly Gly Leu Ser Trp Asp Thr Thr Lys Lys
 100 105 110

Asp Leu Lys Asp Tyr Phe Ser Lys Phe Gly Glu Val Val Asp Cys Thr
 115 120 125

Leu Lys Leu Asp Pro Ile Thr Gly Arg Ser Arg Gly Phe Gly Phe Val
 130 135 140

Leu Phe Lys Glu Ser Glu Ser Val Asp Lys Val Met Asp Gln Lys Glu
 145 150 155 160

His Lys Leu Asn Gly Lys Val Ile Asp Pro Lys Arg Ala Lys Ala Met
 165 170 175

Lys Thr Lys Glu Pro Val Lys Lys Ile Phe Val Gly Gly Leu Ser Pro

[illegible]

```
<210> 673
<211> 248
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<400> 673
Pro Leu Arg Xaa Val Leu Val Glu Ser Ile Pro Glu Gly Leu Asp Phe
 1             5             10             15

Pro Asn Ala Ser Thr Gly Asn Pro Ser Thr Ser Gln Ala Trp Leu Gly
          20             25             30

Leu Leu Ala Gly Ala His Ser Ser Leu Asp Ile Ala Ser Phe Tyr Trp
      35             40             45

Thr Leu Thr Asn Asn Asp Thr His Thr Gln Glu Pro Ser Ala Gln Gln
 50             55             60

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687

Gly Glu Glu Val Leu Arg Gln Leu Gln Thr Leu Ala Pro Lys Gly Val
 65 70 75 80
 Asn Val Arg Ile Ala Val Ser Lys Pro Ser Gly Pro Gln Pro Gln Ala
 85 90 95
 Asp Leu Gln Ala Leu Leu Gln Ser Gly Ala Gln Val Arg Met Val Asp
 100 105 110
 Met Gln Lys Leu Thr His Gly Val Leu His Thr Lys Phe Trp Val Val
 115 120 125
 Asp Gln Thr His Phe Tyr Leu Gly Ser Ala Asn Met Asp Trp Arg Ser
 130 135 140
 Leu Thr Gln Val Lys Glu Leu Gly Val Val Met Tyr Asn Cys Ser Cys
 145 150 155 160
 Leu Ala Arg Asp Leu Thr Lys Ile Phe Glu Ala Tyr Trp Phe Leu Gly
 165 170 175
 Gln Ala Gly Ser Ser Ile Pro Ser Thr Trp Pro Arg Phe Tyr Asp Thr
 180 185 190
 Arg Tyr Asn Gln Glu Thr Pro Met Glu Ile Cys Leu Asn Gly Thr Pro
 195 200 205
 Ala Leu Ala Tyr Leu Ala Ser Ala Pro Pro Pro Leu Cys Pro Ser Gly
 210 215 220
 Arg Thr Pro Asp Leu Lys Ala Leu Leu Asn Val Val Gly Gln Cys Pro
 225 230 235 240
 Glu Phe His Leu Arg Arg Cys Ser
 245

<210> 674

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (290)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (291)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 674

Ala	Leu	Asp	Phe	Gly	Asp	Ser	Cys	Gln	Trp	Pro	Arg	Pro	Gln	Asp	Thr
1				5					10					15	

Met	Lys	Gln	Leu	Pro	Val	Leu	Glu	Pro	Gly	Asp	Lys	Pro	Arg	Lys	Ala
			20					25					30		

Thr	Trp	Tyr	Thr	Leu	Thr	Val	Pro	Gly	Asp	Ser	Pro	Cys	Ala	Arg	Val
		35					40					45			

Gly	His	Ser	Cys	Ser	Tyr	Leu	Pro	Pro	Val	Gly	Asn	Ala	Lys	Arg	Gly
	50					55					60				

Lys	Val	Phe	Ile	Val	Gly	Gly	Ala	Asn	Pro	Asn	Arg	Ser	Phe	Ser	Asp
65					70					75					80

Val	His	Thr	Met	Asp	Leu	Gly	Lys	Xaa	Gln	Trp	Asp	Leu	Asp	Thr	Cys
				85					90					95	

Lys	Gly	Leu	Leu	Pro	Arg	Tyr	Glu	His	Ala	Ser	Phe	Ile	Pro	Ser	Cys
		100					105						110		

Thr	Pro	Asp	Arg	Ile	Trp	Val	Phe	Gly	Gly	Ala	Asn	Gln	Ser	Gly	Asn
		115					120					125			

Arg	Asn	Cys	Leu	Gln	Val	Leu	Asn	Pro	Glu	Thr	Arg	Thr	Trp	Thr	Xaa
	130					135					140				

Pro	Glu	Val	Thr	Ser	Pro	Pro	Pro	Ser	Pro	Arg	Thr	Phe	His	Thr	Ser
145					150					155					160

Ser	Ala	Ala	Ile	Gly	Asn	Gln	Leu	Tyr	Val	Phe	Gly	Gly	Gly	Glu	Arg
			165						170					175	

689

Gly Ala Gln Pro Val Gln Asp Thr Lys Leu His Val Phe Asp Ala Asn
 180 185 190
 Thr Leu Thr Trp Ser Gln Pro Glu Thr Leu Gly Asn Pro Pro Ser Pro
 195 200 205
 Arg His Gly His Val Met Val Ala Ala Gly Thr Lys Leu Phe Ile His
 210 215 220
 Gly Gly Leu Ala Gly Asp Arg Phe Tyr Asp Asp Leu His Cys Ile Asp
 225 230 235 240
 Ile Ser Gly His Glu Met Ala Gly Ser Leu Asn Pro Thr Gly Gly Leu
 245 250 255
 Leu Pro Ala Gly Cys Ala Ala His Ser Ala Val Ala Met Gly Lys His
 260 265 270
 Val Tyr Ile Phe Gly Gly Ile Asp Ser Cys Arg Ala Leu Asp Thr Cys
 275 280 285
 Tyr Xaa Xaa His Thr Glu Glu Gln His Trp Thr Leu Leu Xaa Ile
 290 295 300

<210> 675

<211> 361

<212> PRT

<213> Homo sapiens

<400> 675

Leu Asp Lys Lys Lys Ser Asn Gln Met Cys Lys Asn Ser Gln Asp Ile
 1 5 10 15
 Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly Arg Cys Lys Cys Asp
 20 25 30
 Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys Phe Cys Glu Cys Asp
 35 40 45
 Asp Arg Glu Cys Ile Asp Asp Glu Thr Glu Glu Ile Cys Gly Gly His
 50 55 60
 Gly Lys Cys Tyr Cys Gly Asn Cys Tyr Cys Lys Ala Gly Trp His Gly
 65 70 75 80
 Asp Lys Cys Glu Phe Gln Cys Asp Ile Thr Pro Trp Glu Ser Lys Arg
 85 90 95
 Arg Cys Thr Ser Pro Asp Gly Lys Ile Cys Ser Asn Arg Gly Thr Cys

690

100	105	110
Val Cys Gly Glu Cys Thr Cys His Asp Val Asp Pro Thr Gly Asp Trp		
115	120	125
Gly Asp Ile His Gly Asp Thr Cys Glu Cys Asp Glu Arg Asp Cys Arg		
130	135	140
Ala Val Tyr Asp Arg Tyr Ser Asp Asp Phe Cys Ser Gly His Gly Gln		
145	150	155
Cys Asn Cys Gly Arg Cys Asp Cys Lys Ala Gly Trp Tyr Gly Lys Lys		
165	170	175
Cys Glu His Pro Gln Ser Cys Thr Leu Ser Ala Glu Glu Ser Ile Arg		
180	185	190
Lys Cys Gln Gly Ser Ser Asp Leu Pro Cys Ser Gly Arg Gly Lys Cys		
195	200	205
Glu Cys Gly Lys Cys Thr Cys Tyr Pro Pro Gly Asp Arg Arg Val Tyr		
210	215	220
Gly Lys Thr Cys Glu Cys Asp Asp Arg Arg Cys Glu Asp Leu Asp Gly		
225	230	235
Val Val Cys Gly Gly His Gly Thr Cys Ser Cys Gly Arg Cys Val Cys		
245	250	255
Glu Arg Gly Trp Phe Gly Lys Leu Cys Gln His Pro Arg Lys Cys Asn		
260	265	270
Met Thr Glu Glu Gln Ser Lys Asn Leu Cys Glu Ser Ala Asp Gly Ile		
275	280	285
Leu Cys Ser Gly Lys Gly Ser Cys His Cys Gly Lys Cys Ile Cys Ser		
290	295	300
Ala Glu Glu Trp Tyr Ile Ser Gly Glu Phe Cys Asp Cys Asp Asp Arg		
305	310	315
Asp Cys Asp Lys His Asp Gly Leu Ile Cys Thr Gly Asn Gly Ile Cys		
325	330	335
Ser Cys Gly Asn Cys Glu Cys Trp Asp Gly Trp Asn Gly Asn Ala Cys		
340	345	350
Glu Ile Trp Leu Gly Ser Glu Tyr Pro		
355	360	

691

<210> 676

<211> 154

<212> PRT

<213> Homo sapiens

<400> 676

Gly Arg Ser Leu Arg Asn Thr Leu Pro Ala Cys Ala Lys Arg Lys Gln
 1 5 10 15

Ala Pro Cys Phe Lys Lys Thr Arg Leu Thr Leu Val Cys Glu Ser Ala
 20 25 30

Pro Gly Pro Ile Thr Met Asp Leu Thr Gly Asp Leu Glu Ala Leu Lys
 35 40 45

Lys Glu Thr Ile Val Leu Lys Glu Gly Ser Glu Tyr Arg Val Lys Ile
 50 55 60

His Phe Lys Val Asn Arg Asp Ile Val Ser Gly Leu Lys Tyr Val Gln
 65 70 75 80

His Thr Tyr Arg Thr Gly Val Lys Val Asp Lys Ala Thr Phe Met Val
 85 90 95

Gly Ser Tyr Gly Pro Arg Pro Glu Glu Tyr Glu Phe Leu Thr Pro Val
 100 105 110

Glu Glu Ala Pro Lys Gly Met Leu Ala Arg Gly Thr Tyr His Asn Lys
 115 120 125

Ser Phe Phe Thr Asp Asp Asp Lys Gln Asp His Leu Ser Trp Glu Trp
 130 135 140

Asn Leu Ser Ile Lys Lys Glu Trp Thr Glu
 145 150

<210> 677

<211> 270

<212> PRT

<213> Homo sapiens

<400> 677

Glu Glu Ala Ala Thr Pro Ser Gly Gly Gly Arg Asn Arg Ser Ala Ser
 1 5 10 15

Ser Ser Trp Val Gly Thr Met Ala Gly Ile Thr Thr Ile Glu Ala Val
 20 25 30

692

Lys Arg Lys Ile Gln Val Leu Gln Gln Gln Ala Asp Asp Ala Glu Glu
 35 40 45
 Arg Ala Glu Arg Leu Gln Arg Glu Val Glu Gly Glu Arg Arg Ala Arg
 50 55 60
 Glu Gln Ala Glu Ala Glu Val Ala Ser Leu Asn Arg Arg Ile Gln Leu
 65 70 75 80
 Val Glu Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu
 85 90 95
 Gln Lys Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly
 100 105 110
 Met Lys Val Ile Glu Asn Arg Ala Leu Lys Asp Glu Glu Lys Met Glu
 115 120 125
 Leu Gln Glu Ile Gln Leu Lys Glu Ala Lys His Ile Ala Glu Glu Ala
 130 135 140
 Asp Arg Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Ile Glu Gly
 145 150 155 160
 Asp Leu Glu Arg Thr Glu Glu Arg Ala Glu Leu Ala Glu Ser Arg Cys
 165 170 175
 Arg Glu Met Asp Glu Gln Ile Arg Leu Met Asp Gln Asn Leu Lys Cys
 180 185 190
 Leu Ser Ala Ala Glu Glu Lys Tyr Ser Gln Lys Glu Asp Lys Tyr Glu
 195 200 205
 Glu Glu Ile Lys Ile Leu Thr Asp Lys Leu Lys Glu Ala Glu Thr Arg
 210 215 220
 Ala Glu Phe Ala Glu Arg Ser Val Ala Lys Leu Glu Lys Thr Ile Asp
 225 230 235 240
 Asp Leu Glu Asp Lys Leu Lys Cys Thr Lys Glu Glu His Leu Cys Thr
 245 250 255
 Gln Arg Met Leu Asp Gln Thr Leu Leu Asp Leu Asn Glu Met
 260 265 270

<210> 678

<211> 712

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (389)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (394)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 678
 Xaa Xaa Pro Leu Thr Arg Leu Asn Leu Pro Ala Cys Arg Met Gly Ala
 1 5 10 15
 Asp Trp Thr Thr Xaa Ser Leu Arg Ala Leu Ala Ala Xaa Ala Pro Ala
 20 25 30
 Leu Glu Arg Glu Ser Glu Gly Thr Thr Gly Val Leu Xaa Trp Val Leu
 35 40 45
 Thr Pro Ala Leu Leu His Glu Arg Leu Ser Ser Gly Cys Val Gln Gly
 50 55 60
 Ile Thr Glu Leu Phe Cys Pro Asn Pro Glu Ala Tyr Gln Gly Leu Pro
 65 70 75 80

694

Thr	Leu	Pro	Pro	Ser	Thr	Leu	Ser	Val	Ala	Ala	Ala	Ala	Ala	Met	Ala	85	90	95
Gly	Met	Lys	Thr	Ala	Ser	Gly	Asp	Tyr	Ile	Asp	Ser	Ser	Trp	Glu	Leu	100	105	110
Arg	Val	Phe	Val	Gly	Glu	Glu	Asp	Pro	Glu	Ala	Glu	Ser	Val	Thr	Leu	115	120	125
Arg	Val	Thr	Gly	Glu	Ser	His	Ile	Gly	Gly	Val	Leu	Leu	Lys	Ile	Val	130	135	140
Glu	Gln	Ile	Asn	Arg	Lys	Gln	Asp	Trp	Ser	Asp	His	Ala	Ile	Trp	Trp	145	150	155
Glu	Gln	Lys	Arg	Gln	Trp	Leu	Leu	Gln	Thr	His	Trp	Thr	Leu	Asp	Lys	165	170	175
Tyr	Gly	Ile	Leu	Ala	Asp	Ala	Arg	Leu	Phe	Phe	Gly	Pro	Gln	His	Arg	180	185	190
Pro	Val	Ile	Leu	Arg	Leu	Pro	Asn	Arg	Arg	Ala	Leu	Arg	Leu	Arg	Ala	195	200	205
Ser	Phe	Ser	Gln	Pro	Leu	Phe	Gln	Ala	Val	Ala	Ala	Ile	Cys	Arg	Leu	210	215	220
Leu	Ser	Ile	Arg	His	Pro	Glu	Glu	Leu	Ser	Leu	Leu	Arg	Ala	Pro	Glu	225	230	235
Lys	Lys	Glu	Lys	Lys	Lys	Lys	Glu	Lys	Glu	Pro	Glu	Glu	Glu	Leu	Tyr	245	250	255
Asp	Leu	Ser	Lys	Val	Val	Leu	Ala	Gly	Gly	Val	Ala	Pro	Ala	Leu	Phe	260	265	270
Arg	Gly	Met	Pro	Ala	His	Phe	Ser	Asp	Ser	Ala	Gln	Thr	Glu	Ala	Cys	275	280	285
Tyr	His	Met	Leu	Ser	Arg	Pro	Gln	Pro	Pro	Pro	Asp	Pro	Leu	Leu	Leu	290	295	300
Gln	Arg	Leu	Pro	Arg	Pro	Ser	Ser	Leu	Ser	Asp	Lys	Thr	Gln	Leu	His	305	310	315
Ser	Arg	Trp	Leu	Asp	Ser	Ser	Arg	Cys	Leu	Met	Gln	Gln	Gly	Ile	Lys	325	330	335
Ala	Gly	Asp	Ala	Leu	Trp	Leu	Arg	Phe	Lys	Tyr	Tyr	Ser	Phe	Phe	Asp	340	345	350

Leu Asp Pro Lys Thr Asp Pro Val Arg Leu Thr Gln Leu Tyr Glu Gln
 355 360 365
 Ala Arg Trp Asp Leu Leu Leu Glu Glu Ile Asp Cys Thr Glu Glu Glu
 370 375 380
 Met Met Val Phe Xaa Ala Leu Gln Asp Xaa Leu Thr Thr Ile Pro Glu
 385 390 395 400
 Leu Lys Asp His Leu Arg Ile Phe Arg Pro Arg Lys Leu Thr Leu Lys
 405 410 415
 Gly Tyr Arg Gln His Trp Val Val Phe Lys Glu Thr Thr Leu Ser Tyr
 420 425 430
 Tyr Lys Ser Gln Asp Glu Ala Pro Gly Asp Pro Ile Gln Gln Leu Asn
 435 440 445
 Leu Lys Gly Cys Glu Val Val Pro Asp Val Asn Val Ser Gly Gln Lys
 450 455 460
 Phe Cys Ile Lys Leu Leu Val Pro Ser Pro Glu Gly Met Ser Glu Ile
 465 470 475 480
 Tyr Leu Arg Cys Gln Asp Glu Gln Gln Tyr Ala Arg Trp Met Ala Gly
 485 490 495
 Cys Arg Leu Ala Ser Lys Gly Arg Thr Met Ala Asp Ser Ser Tyr Thr
 500 505 510
 Ser Glu Val Gln Ala Ile Leu Ala Phe Leu Ser Leu Gln Arg Thr Gly
 515 520 525
 Ser Gly Gly Pro Gly Asn His Pro His Gly Pro Asp Ala Ser Ala Glu
 530 535 540
 Gly Leu Asn Pro Tyr Gly Leu Val Ala Pro Arg Phe Gln Arg Lys Phe
 545 550 555 560
 Lys Ala Lys Gln Leu Thr Pro Arg Ile Leu Glu Ala His Gln Asn Val
 565 570 575
 Ala Gln Leu Ser Leu Ala Glu Ala Gln Leu Arg Phe Ile Gln Ala Trp
 580 585 590
 Gln Ser Leu Pro Asp Phe Gly Ile Ser Tyr Val Met Val Arg Phe Lys
 595 600 605
 Gly Ser Arg Lys Asp Glu Ile Leu Gly Ile Ala Asn Asn Arg Leu Ile
 610 615 620

696

Arg Ile Asp Leu Ala Val Gly Asp Val Val Lys Thr Trp Arg Phe Ser
 625 630 635 640
 Asn Met Arg Gln Trp Asn Val Asn Trp Asp Ile Arg Gln Val Ala Ile
 645 650 655
 Glu Phe Asp Glu His Ile Asn Val Ala Phe Ser Cys Val Ser Ala Ser
 660 665 670
 Cys Arg Ile Val His Glu Tyr Ile Gly Gly Tyr Ile Phe Leu Ser Thr
 675 680 685
 Arg Glu Arg Ala Arg Gly Glu Glu Leu Asp Glu Asp Leu Phe Leu Gln
 690 695 700
 Leu Thr Gly Gly His Glu Ala Phe
 705 710

<210> 679

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 679

Thr Val Lys Val Trp Ala Thr His Arg Gln Lys Phe Leu Phe Ser Leu
 1 5 10 15
 Ser Gln His Ile Asn Trp Val Arg Cys Ala Lys Phe Ser Pro Asp Gly
 20 25 30
 Arg Leu Ile Val Ser Ala Ser Asp Asp Lys Thr Val Lys Leu Trp Asp
 35 40 45
 Lys Ser Ser Arg Glu Cys Val His Ser Tyr Cys Glu His Gly Gly Phe
 50 55 60
 Val Thr Tyr Val Asp Phe His Pro Ser Gly Thr Cys Ile Ala Ala Ala
 65 70 75 80
 Gly Met Asp Asn Thr Val Lys Val Trp Asp Val Arg Thr His Arg Leu
 85 90 95
 Leu Gln His Tyr Gln Leu His Ser Ala Ala Val Asn Gly Leu Ser Phe

697

100 105 110
His Pro Ser Gly Asn Tyr Leu Ile Thr Ala Ser Ser Asp Ser Thr Leu
115 120 125
Lys Ile Leu Asp Leu Met Glu Gly Pro Ala Ala Leu His Thr Pro Arg
130 135 140
Gly Ile Arg Asp Gln Pro His Trp Pro Ser Ser Met Gly Asn Leu Pro
145 150 155 160
Glu Val Asp Phe Pro Val Pro Pro Arg Gln Lys Gln Gly Val Leu Glu
165 170 175
Ser Val Xaa

<210> 680

<211> 271

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 680

Leu	Ala	Arg	Thr	Pro	Leu	Pro	Ser	Xaa	Xaa	Xaa	Phe	Xaa	Asn	Trp	Pro
1				5				10						15	

Xaa	Pro	Ala	Leu	Cys	Ser	Cys	Gly	Leu	Ile	Arg	Xaa	Xaa	Pro	Ala	Arg
			20					25						30	

His	Pro	Arg	Pro	Ala	Met	Ala	Ile	Tyr	Lys	Gln	Ser	Gln	His	Met	Thr
		35					40					45			

Glu	Val	Val	Arg	Arg	Cys	Pro	His	His	Glu	Arg	Cys	Ser	Asp	Ser	Asp
	50					55					60				

Gly	Leu	Ala	Pro	Pro	Gln	His	Leu	Ile	Arg	Val	Glu	Gly	Asn	Leu	Arg
65					70					75					80

Val	Glu	Tyr	Leu	Asp	Asp	Arg	Asn	Thr	Phe	Arg	His	Ser	Val	Val	Val
			85						90					95	

Pro	Tyr	Glu	Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr
			100					105					110		

Asn	Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Met	Asn	Arg	Arg	Pro
		115					120					125			

Ile	Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Gly
	130					135					140				

Arg	Asn	Ser	Phe	Glu	Val	Arg	Val	Cys	Ala	Cys	Pro	Gly	Arg	Asp	Arg
145					150					155				160	

Arg	Thr	Glu	Glu	Glu	Asn	Leu	Arg	Lys	Lys	Gly	Glu	Pro	His	His	Glu
			165						170					175	

Leu	Pro	Pro	Gly	Ser	Thr	Lys	Arg	Ala	Leu	Pro	Asn	Asn	Thr	Ser	Ser
			180					185					190		

Ser	Pro	Gln	Pro	Lys	Lys	Lys	Pro	Leu	Asp	Gly	Glu	Tyr	Phe	Thr	Leu
		195					200					205			

Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu
	210					215					220				

699

Ala Leu Glu Leu Lys Asp Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser
 225 230 235 240

Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser
 245 250 255

Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp
 260 265 270

<210> 681

<211> 39

<212> PRT

<213> Homo sapiens

<400> 681

Gly Gln Val Arg Cys Leu Thr Ser Val Ile Pro Thr Leu Trp Glu Ala
 1 5 10 15

Glu Met Gly Gly Leu Leu Glu Pro Arg Ser Ser Arg Pro Ala Trp Ala
 20 25 30

Thr Gln Arg Asp Pro Ile Ser
 35

<210> 682

<211> 84

<212> PRT

<213> Homo sapiens

<400> 682

Pro Pro Phe Tyr Leu Arg Ser Ile Phe Ile His Cys Ile Gly Asn Cys
 1 5 10 15

Phe Met Leu Leu Gln Ser Ala Lys Ser Arg Ala Phe Ile Arg Pro Cys
 20 25 30

His Thr Gln Glu Ser Thr Tyr Leu Lys Lys Lys Gln Phe Pro Glu Leu
 35 40 45

Ser Thr Pro Ser Cys Arg Phe Gly Val Phe Leu Val Leu Thr Leu Lys
 50 55 60

Ser His Val Leu Ile Phe Phe Leu Pro Val Phe Val Cys Lys Met Ser
 65 70 75 80

Ser Ile Cys Tyr

700

<210> 683

<211> 59

<212> PRT

<213> Homo sapiens

<400> 683

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Ala Phe Val Val Phe Ser Phe Asn Thr Cys Thr Ser Leu Leu Phe Glu
 1             5             10             15

Lys Cys Tyr Ser Cys Gln Arg Ile Phe Met Asp Leu Lys Ile Ile Ser
      20             25             30

Cys Glu Val Glu Cys Lys Cys Thr Val Ile His Ser Val Tyr Ile Lys
      35             40             45

Ile Pro Gly Ile Phe Thr Phe Ala Thr Leu Ile
      50             55

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<210> 684

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 684

```

Arg Asn Ser Arg Val Asp Pro Arg Val Arg Gly Ser Gln Gln Leu Pro
 1             5             10             15

Leu Leu Cys Pro Ala Pro Gly Thr Arg Leu Phe Pro Leu Gln Cys Leu
      20             25             30

Arg Gly Gly Asp Gly Ser Thr Met Asp Pro Arg Leu Ser Thr Val Arg
      35             40             45

Gln Thr Cys Cys Cys Phe Asn Val Arg Ile Ala Thr Thr Ala Leu Ala
      50             55             60

Ile Tyr His Val Ile Met Ser Val Leu Leu Phe Ile Glu His Ser Val
      65             70             75             80

Glu Val Ala His Gly Lys Ala Ser Cys Lys Leu Ser Gln Met Gly Tyr
      85             90             95

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701

Leu Arg Ile Ala Asp Leu Ile Ser Ser Phe Leu Leu Ile Thr Met Leu
 100 105 110
 Phe Ile Ile Ser Leu Ser Leu Leu Ile Gly Val Val Lys Asn Arg Glu
 115 120 125
 Lys Tyr Leu Leu Pro Phe Leu Ser Leu Gln Ile Met Asp Tyr Leu Leu
 130 135 140
 Cys Leu Leu Thr Leu Leu Gly Ser Tyr Ile Glu Leu Pro Ala Tyr Leu
 145 150 155 160
 Lys Leu Ala Ser Arg Ser Arg Ala Ser Ser Ser Lys Phe Pro Leu Met
 165 170 175
 Thr Leu Gln Leu Leu Asp Phe Cys Leu Ser Ile Leu Thr Leu Cys Ser
 180 185 190
 Ser Tyr Met Glu Val Pro Thr Tyr Leu Asn Phe Lys Ser Met Asn His
 195 200 205
 Met Asn Tyr Leu Pro Ser Gln Glu Asp Met Pro His Asn Gln Phe Ile
 210 215 220
 Lys Met Met Ile Ile Phe Ser Ile Ala Phe Ile Thr Val Leu Ile Phe
 225 230 235 240
 Lys Val Tyr Met Phe Lys Cys Val Trp Arg Cys Tyr Arg Leu Ile Lys
 245 250 255
 Cys Met Asn Ser Val Glu Glu Lys Xaa Asn Ser Lys Met Leu Gln Lys
 260 265 270
 Val Val Leu Pro Ser Tyr Glu Glu Ala Leu Ser Leu Pro Ser Lys Thr
 275 280 285
 Pro Glu Gly Gly Pro Ala Pro Pro Pro Tyr Ser Glu Val
 290 295 300

<210> 685

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

702

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 685

Glu Gln Cys Trp Trp Gly Gln Ser Leu Gln Arg Leu Gly Trp Gln Pro
 1 5 10 15

Thr Asn Thr Ser Gly Thr Thr Arg Arg Cys Ala Gly Pro Ser Asn Ser
 20 25 30

Met Gln Leu Ala Ser Arg Ser Ala Gly Glu Leu Val Glu Ser Leu Lys
 35 40 45

Leu Met Ser Leu Cys Leu Gly Ser Gln Leu His Gly Ser Thr Lys Tyr
 50 55 60

Ile Ile Asp Pro Gln Asn Gly Leu Ser Phe Ser Ser Val Lys Val Gln
 65 70 75 80

Glu Lys Xaa Thr Trp Lys Met Cys Ile Ser Ser Thr Gly Xaa Ala Gly
 85 90 95

Gln Val Pro Gln Trp Ala Ala
 100

<210> 686

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 686

Ala Arg Ala Trp Lys His Ile Asp Tyr Phe Asn Asn Gln Ile Ile Val
 1 5 10 15

Asp Leu Val Glu Gln Gln His Lys Gly Ile Ile Ala Ile Leu Asp Asp
 20 25 30

Ala Cys Met Asn Val Gly Lys Val Thr Asp Glu Met Phe Leu Glu Ala
 35 40 45

Leu Asn Ser Lys Leu Gly Lys His Ala His Phe Ser Ser Arg Lys Leu

703

50	55	60
Cys Ala Ser Asp Lys Ile Leu Glu Phe Asp Arg Asn Phe Arg Ile Arg		
65	70	75 80
His Tyr Ala Gly Asp Val Val Tyr Ser Val Ile Gly Phe Ile Asp Lys		
	85	90 95
Asn Lys Asp Thr Leu Phe Gln Asp Phe Lys Arg Leu Met Tyr Asn Ser		
	100	105 110
Ser Asn Pro Val Leu Lys Asn Met Trp Pro Glu Gly Lys Leu Ser Ile		
	115	120 125
Thr Glu Val Thr Lys Arg Pro Leu Thr Ala Ala Thr Leu Phe Lys Asn		
	130	135 140
Xaa Met Ile Ala Leu Val Asp Asn Leu Ala Ser Lys Glu Pro Tyr Tyr		
	145	150 155 160
Val Arg Cys Ile Lys Pro Asn Asp Lys Lys Ser Pro Gln Ile Phe Asp		
	165	170 175
Asp Glu Arg Cys Arg His Gln Val Glu Tyr Leu Gly Leu Leu Glu Asn		
	180	185 190
Val Arg Val Arg Arg Ala Gly Phe Ala Phe Arg Gln Thr Tyr Glu Lys		
	195	200 205
Phe Leu His Arg Tyr Lys Met Ile Ser Gly Ile Ala Pro Gly Pro Thr		
	210	215 220
Met Asp Leu Pro Phe Arg Gln Arg Gly Cys Gln Glu Thr Asn Leu Asn		
	225	230 235 240
Gly Val Val Phe Arg		
	245	

<210> 687

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

704

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 687

Ser	Tyr	Tyr	Asn	Thr	Leu	Ile	Pro	Tyr	Cys	Gln	Cys	Leu	Phe	Ala	Ala
1					5				10					15	

Phe	Pro	His	Phe	Phe	Tyr	Ile	Ile	Xaa	Thr	Val	Leu	Ile	Phe	Phe	Cys
			20					25					30		

His	Trp	Asp	Cys	Leu	Ser	Asp	Thr	Leu	His	Xaa	Ser	Leu	Leu	Leu	Ala
		35					40					45			

Ile	Trp	Lys	Gly	Ser	Lys	Gly	Tyr	Ser	Gly	Gly	Ala	Xaa	Arg	Pro	Gly
	50					55					60				

Val	Trp	Xaa	Ile	Leu	Gln	Asn	Arg	Asn	Lys	Thr	Pro	Gln	Ser	Leu	Pro
65					70					75					80

Leu	Met	Pro	Ser	Ile	Gln	Leu	Phe	Cys	Cys	Ile	Ser	Cys	Leu	Leu	Phe
				85					90					95	

Lys	Lys	Leu	Pro
			100

<210> 688

<211> 60

<212> PRT

<213> Homo sapiens

<400> 688

Asp	Leu	Lys	Ile	Phe	Pro	Phe	Gln	Cys	Cys	Phe	Asn	Cys	Ile	Ser	Tyr
1				5					10					15	

Leu	Val	Phe	Leu	Ile	Asp	Ser	Thr	Val	Ile	Asn	His	Asn	Thr	Arg	Gln
			20					25					30		

Asn	Cys	Leu	Leu	Phe	Gln	Thr	Arg	Ala	Ile	Tyr	Met	Ser	Val	Tyr	Met
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

705

35 40 45
 Gly Pro Thr Ala Ser Leu Arg Lys Cys Ile Ile Cys
 50 55 60

<210> 689
 <211> 403
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 689
 Ser Leu Ala Met Arg Asn Lys Lys Ile Leu Lys Glu Asp Glu Leu Leu
 1 5 10 15

Ser Glu Thr Gln Gln Ala Ala Phe His Gln Ile Ala Met Glu Pro Phe
 20 25 30

Glu Ile Asn Val Pro Lys Pro Lys Arg Arg Asn Gly Val Asn Phe Ser
 35 40 45

Leu Ala Val Val Val Ile Tyr Leu Ile Leu Leu Thr Ala Gly Ala Gly
 50 55 60

Leu Leu Val Val Gln Val Leu Asn Leu Gln Ala Arg Leu Arg Val Leu
 65 70 75 80

Glu Met Tyr Phe Leu Asn Asp Thr Leu Ala Ala Glu Asp Ser Pro Ser
 85 90 95

Phe Ser Leu Leu Gln Ser Ala His Pro Gly Glu His Leu Ala Gln Gly
 100 105 110

Ala Ser Arg Leu Gln Val Leu Gln Ala Gln Leu Thr Trp Val Arg Val
 115 120 125

Ser His Glu His Leu Leu Gln Arg Val Asp Asn Phe Thr Gln Asn Pro
 130 135 140

Gly Met Phe Arg Ile Lys Gly Glu Gln Gly Ala Pro Gly Leu Gln Gly
 145 150 155 160

His Lys Gly Ala Met Gly Met Pro Gly Ala Pro Gly Pro Pro Gly Pro
 165 170 175

706

Pro Ala Glu Lys Gly Ala Xaa Gly Ala Met Gly Arg Asp Gly Ala Thr
 180 185 190
 Gly Pro Ser Gly Pro Gln Gly Pro Pro Gly Val Lys Gly Glu Ala Gly
 195 200 205
 Leu Gln Gly Pro Gln Gly Ala Pro Gly Lys Gln Gly Ala Thr Gly Thr
 210 215 220
 Pro Gly Pro Gln Gly Glu Lys Gly Ser Lys Gly Asp Gly Gly Leu Ile
 225 230 235 240
 Gly Pro Lys Gly Glu Thr Gly Thr Lys Gly Glu Lys Gly Asp Leu Gly
 245 250 255
 Leu Pro Gly Ser Lys Gly Asp Arg Gly Met Lys Gly Asp Ala Gly Val
 260 265 270
 Met Gly Pro Pro Gly Ala Gln Gly Ser Lys Gly Asp Phe Gly Arg Pro
 275 280 285
 Gly Pro Pro Gly Leu Ala Gly Phe Pro Gly Ala Lys Gly Asp Gln Gly
 290 295 300
 Gln Pro Gly Leu Gln Gly Val Pro Gly Pro Pro Gly Ala Val Gly His
 305 310 315 320
 Pro Gly Ala Lys Gly Glu Pro Gly Ser Ala Gly Ser Pro Gly Arg Ala
 325 330 335
 Gly Leu Pro Gly Ser Pro Gly Ser Pro Gly Ala Thr Gly Leu Lys Gly
 340 345 350
 Ser Lys Gly Asp Thr Gly Leu Gln Gly Gln Gln Gly Arg Lys Gly Glu
 355 360 365
 Ser Gly Val Pro Gly Pro Ala Gly Val Lys Gly Glu Gln Gly Ser Pro
 370 375 380
 Gly Leu Ala Gly Pro Lys Gly Ala Pro Gly Gln Ala Ala Arg Arg Glu
 385 390 395 400
 Thr Arg Glu

<210> 690

<211> 494

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (271)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (462)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (463)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (482)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (483)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (490)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 690
 Ser Arg Val Arg Lys Phe Pro Gly Arg Pro Thr Arg Pro Thr Glu Gln
 1 5 10 15
 Ile Arg Gln Asp Arg Ser Lys Gly Thr Val His Phe Ala Val Val Ile
 20 25 30
 Thr Asp Gly His Val Thr Gly Ser Pro Cys Gly Gly Ile Lys Leu Xaa
 35 40 45
 Ala Glu Arg Ala Arg Glu Glu Gly Ile Arg Leu Phe Ala Val Ala Pro
 50 55 60
 Asn Gln Asn Leu Lys Glu Gln Gly Leu Arg Asp Ile Ala Ser Thr Pro
 65 70 75 80

His	Glu	Leu	Tyr	Arg	Asn	Asp	Tyr	Ala	Thr	Met	Leu	Pro	Asp	Ser	Thr	85	90	95
Glu	Ile	Asp	Gln	Asp	Thr	Ile	Asn	Arg	Ile	Ile	Lys	Val	Met	Lys	His	100	105	110
Glu	Ala	Tyr	Gly	Glu	Cys	Tyr	Lys	Val	Ser	Cys	Leu	Glu	Ile	Pro	Gly	115	120	125
Pro	Ser	Gly	Pro	Lys	Gly	Tyr	Arg	Gly	Gln	Lys	Gly	Ala	Lys	Gly	Asn	130	135	140
Met	Gly	Glu	Pro	Gly	Glu	Pro	Gly	Gln	Lys	Gly	Arg	Gln	Gly	Asp	Pro	145	150	155
Gly	Ile	Glu	Gly	Pro	Ile	Gly	Phe	Pro	Gly	Pro	Lys	Gly	Val	Pro	Gly	165	170	175
Phe	Lys	Gly	Glu	Lys	Gly	Glu	Phe	Gly	Ala	Asp	Gly	Arg	Lys	Gly	Ala	180	185	190
Pro	Gly	Leu	Ala	Gly	Lys	Asn	Gly	Thr	Asp	Gly	Gln	Lys	Gly	Lys	Leu	195	200	205
Gly	Arg	Ile	Gly	Pro	Pro	Gly	Cys	Lys	Gly	Asp	Pro	Gly	Asn	Arg	Gly	210	215	220
Pro	Asp	Gly	Tyr	Pro	Gly	Glu	Ala	Gly	Ser	Pro	Gly	Glu	Arg	Gly	Asp	225	230	235
Gln	Gly	Gly	Lys	Gly	Asp	Pro	Gly	Arg	Pro	Gly	Arg	Arg	Gly	Pro	Pro	245	250	255
Gly	Glu	Ile	Gly	Ala	Lys	Gly	Ser	Lys	Gly	Tyr	Gln	Gly	Asn	Xaa	Gly	260	265	270
Ala	Pro	Gly	Ser	Pro	Gly	Val	Lys	Gly	Ala	Lys	Gly	Gly	Pro	Gly	Pro	275	280	285
Arg	Gly	Pro	Lys	Gly	Glu	Pro	Gly	Arg	Arg	Gly	Asp	Pro	Gly	Thr	Lys	290	295	300
Gly	Ser	Pro	Gly	Ser	Asp	Gly	Pro	Lys	Gly	Glu	Lys	Gly	Asp	Pro	Gly	305	310	315
Pro	Glu	Gly	Pro	Arg	Gly	Leu	Ala	Gly	Glu	Val	Gly	Asn	Lys	Gly	Ala	325	330	335
Lys	Gly	Asp	Arg	Gly	Leu	Pro	Gly	Pro	Arg	Gly	Pro	Gln	Gly	Ala	Leu	340	345	350

Gly Glu Pro Gly Lys Gln Gly Ser Arg Gly Asp Pro Gly Asp Ala Gly
 355 360 365
 Pro Arg Gly Asp Ser Gly Gln Pro Gly Pro Lys Gly Asp Pro Gly Arg
 370 375 380
 Pro Gly Phe Ser Tyr Pro Gly Pro Arg Gly Ala Pro Gly Glu Lys Gly
 385 390 395 400
 Glu Pro Gly Pro Arg Gly Pro Glu Gly Gly Arg Gly Asp Phe Gly Leu
 405 410 415
 Lys Gly Glu Pro Gly Arg Lys Gly Glu Lys Gly Glu Pro Ala Asp Pro
 420 425 430
 Gly Pro Pro Gly Glu Pro Gly Pro Arg Gly Pro Arg Gly Val Pro Gly
 435 440 445
 Pro Glu Gly Glu Pro Gly Pro Pro Gly Asp Pro Gly Leu Xaa Xaa Val
 450 455 460
 Arg Lys Arg Cys Cys Ala Leu Glu Val Val Phe Arg His Ser Thr Ala
 465 470 475 480
 Pro Xaa Xaa Leu Gly Thr Thr Asn Leu Xaa Trp Glu Lys Asn
 485 490

<210> 691

<211> 433

<212> PRT

<213> Homo sapiens

<400> 691

Leu Val Glu Gln Ser Gly Lys Ala Leu Leu Gly Pro His Ile Ser Glu
 1 5 10 15
 Lys Ala Glu Leu Gly Ser Cys Leu Arg Ser Leu Gln Gly Gln Pro Arg
 20 25 30
 Arg Leu Ala Val Pro Ser Arg Pro Leu Ser Ala Asp Val Asn Glu Cys
 35 40 45
 Leu Thr Ile Pro Glu Ala Cys Lys Gly Glu Met Lys Cys Ile Asn His
 50 55 60
 Tyr Gly Gly Tyr Leu Cys Leu Pro Arg Ser Ala Ala Val Ile Asn Asp
 65 70 75 80

711

Ile Gln Ala Thr Ser Val Tyr Pro Gly Ala Tyr Asn Ala Phe Gln Ile
 355 360 365

Arg Ala Gly Asn Ser Gln Gly Asp Phe Tyr Ile Arg Gln Ile Asn Asn
 370 375 380

Val Ser Ala Met Leu Val Leu Ala Arg Pro Val Thr Gly Pro Arg Glu
 385 390 395 400

Tyr Val Leu Asp Leu Glu Met Val Thr Met Asn Ser Leu Met Ser Tyr
 405 410 415

Arg Ala Ser Ser Val Leu Arg Leu Thr Val Phe Val Gly Ala Tyr Thr
 420 425 430

Phe

<210> 692
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 692
 Leu Gln Arg Asp Leu Arg Glu Gly His Ala Asn Pro Thr Ala Asp Leu
 1 5 10 15

Lys Ser Leu Ala Glu Leu Gly Asp Cys Asn Glu Asp Leu Glu Gln Val
 20 25 30

Glu Lys Cys Met Leu Pro Glu Cys Pro Ile Asp Cys Glu Leu Thr Glu
 35 40 45

Trp Ser Gln Trp Ser Glu Cys Asn Lys Ser Cys Gly Lys Gly His Val
 50 55 60

Ile Arg Thr Arg Met Ile Gln Met Glu Pro Gln Phe Gly Gly Ala Pro
 65 70 75 80

Cys Pro Glu Thr Val Gln Arg Lys Lys Cys Arg Ile Arg Lys Cys Leu
 85 90 95

Arg Asn Pro Ser Ile Gln Lys Leu Arg Trp Arg Glu Ala Arg Glu Ser
 100 105 110

Arg Arg Ser Glu Gln Leu Lys Glu Glu Ser Glu Gly Glu Gln Phe Pro
 115 120 125

Gly Cys Arg Met Arg Pro Trp Thr Ala Trp Ser Glu Cys Thr Lys Leu

712

130 135 140
 Cys Gly Gly Gly Ile Gln Glu Arg Tyr Met Thr Val Lys Lys Arg Phe
 145 150 155 160
 Lys Ser Ser Gln Phe Thr Ser Cys Lys Asp Lys Lys Glu Ile Arg Ala
 165 170 175
 Cys Asn Val His Pro Cys
 180

<210> 693
 <211> 283
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 693
 Ala Glu His Phe Pro Pro Gly Lys Tyr Arg Ile Ser Cys Pro Gly Gln
 1 5 10 15
 Glu Ser Asp Ala Gly Asp Arg Val Met Val Leu Asn Arg Ser Gly Met
 20 25 30
 Trp Gln Glu Glu Val Thr Val Pro Ser Val Gln Thr Phe Leu Ile Pro
 35 40 45
 Glu Ala Met Thr Phe Glu Glu Ala Ala Ala Leu Leu Val Asn Tyr Ile
 50 55 60
 Thr Ala Tyr Met Val Leu Phe Asp Phe Gly Asn Leu Gln Pro Gly His
 65 70 75 80
 Ser Val Leu Val His Met Ala Ala Gly Gly Val Gly Met Ala Ala Val
 85 90 95
 Xaa Leu Cys Arg Thr Val Glu Asn Val Thr Val Phe Gly Thr Ala Ser
 100 105 110
 Ala Ser Lys His Glu Ala Leu Lys Glu Asn Gly Val Thr His Pro Ile
 115 120 125
 Asp Tyr His Thr Thr Asp Tyr Val Asp Glu Ile Lys Lys Ile Ser Pro
 130 135 140

Lys Gly Val Asp Ile Val Met Asp Pro Leu Gly Gly Ser Asp Thr Ala
 145 150 155 160
 Lys Gly Tyr Asn Leu Leu Lys Pro Met Gly Lys Val Val Thr Tyr Gly
 165 170 175
 Met Ala Asn Leu Leu Thr Gly Pro Lys Arg Asn Leu Met Ala Leu Ala
 180 185 190
 Arg Thr Trp Trp Asn Gln Phe Ser Val Thr Ala Leu Gln Leu Leu Gln
 195 200 205
 Ala Asn Arg Ala Val Cys Gly Phe His Leu Gly Tyr Leu Asp Gly Glu
 210 215 220
 Val Glu Leu Val Ser Gly Val Val Ala Arg Leu Leu Ala Leu Tyr Asn
 225 230 235 240
 Gln Gly His Ile Lys Pro His Ile Asp Ser Val Trp Pro Phe Glu Lys
 245 250 255
 Val Ala Asp Ala Met Lys Gln Met Gln Glu Lys Lys Asn Val Gly Lys
 260 265 270
 Val Leu Leu Val Pro Gly Pro Glu Lys Glu Asn
 275 280

<210> 694
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 694
 Gly Glu Ala Pro Asp Pro His Ala Ala Arg Thr Glu Leu Ser Ala Pro
 1 5 10 15
 Leu Pro Ala Thr Ala Ser Arg Ala Ser Leu Ser Ser Asn Met Ala Lys
 20 25 30
 Ile Ser Ser Pro Thr Glu Thr Glu Arg Cys Ile Glu Ser Leu Ile Ala
 35 40 45
 Val Phe Gln Lys Tyr Ala Gly Lys Asp Gly Tyr Asn Tyr Thr Leu Ser
 50 55 60
 Lys Thr Glu Phe Leu Ser Phe Met Asn Thr Glu Leu Ala Ala Phe Thr
 65 70 75 80
 Lys Asn Gln Lys Asp Pro Gly Val Leu Asp Arg Met Met Lys Lys Leu

714

	85		90		95
Asp Thr Asn Ser Asp Gly Gln Leu Asp Phe Ser Glu Phe Leu Asn Leu					
	100		105		110
Ile Gly Gly Leu Ala Met Ala Cys His Asp Ser Phe Leu Lys Ala Val					
	115		120		125
Pro Ser Gln Lys Arg Thr					
	130				

<210> 695

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 695

Gly Ser Ser Glu Gly Ser Tyr Ser Ser Gln Thr Glu Thr Cys Pro Leu
1 5 10 15

Thr Pro Ser Leu Val Thr Gly Ser Met Phe Ala Gln Asn Phe Leu Arg
20 25 30

Gly Leu Ser Leu Gln Lys Ser Asn Leu Leu Pro Glu Cys Cys Leu Ala
35 40 45

Ser Glu Asn Leu Thr Leu Ser Phe Pro Ser Val Asn Gly His Arg Cys
50 55 60

Val Ala Gln Gly Ser Glu Thr Ser Glu Ser Arg Ala Gln Trp His Gly
65 70 75 80

Val Ala Leu Val Val Arg Lys Val Ile Gly Gln Leu Tyr Cys Lys Arg
85 90 95

Asn Lys Tyr Val Val Gln Phe Cys Lys Cys Gln Val Cys Ser Xaa Val
100 105 110

Leu

<210> 696

715

<211> 409

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 696

Gly	Glu	Arg	Glu	Gly	Gly	Asp	Cys	Lys	Gln	Asp	Ser	Leu	Val	Ile	Asn
1				5					10					15	

Leu	Asn	Arg	Ser	Asn	Pro	Lys	Leu	Lys	Asp	Leu	Tyr	Ile	Arg	Pro	Asn
			20					25					30		

Ile	Ala	Gln	Lys	Arg	Met	Gln	Gly	Ser	Leu	Glu	Ala	His	Val	Asn	Gly
		35					40					45			

Phe	Arg	Phe	Thr	Ser	Val	Arg	Gly	Asp	Lys	Val	Asp	Ile	Leu	Tyr	Asn
	50						55				60				

Asn	Ile	Lys	His	Ala	Leu	Phe	Gln	Pro	Cys	Asp	Gly	Glu	Met	Ile	Ile
65					70					75					80

Val	Leu	His	Phe	His	Leu	Lys	Asn	Ala	Ile	Met	Phe	Gly	Lys	Lys	Arg
				85					90					95	

His	Thr	Asp	Val	Gln	Phe	Tyr	Thr	Glu	Val	Gly	Glu	Ile	Thr	Xaa	Asp
			100					105					110		

Leu	Gly	Lys	His	Gln	His	Met	His	Asp	Arg	Asp	Asp	Leu	Tyr	Ala	Glu
	115						120					125			

Gln	Met	Glu	Arg	Glu	Met	Arg	His	Lys	Leu	Lys	Thr	Ala	Phe	Lys	Asn
	130						135				140				

Phe	Ile	Glu	Lys	Val	Glu	Ala	Leu	Thr	Lys	Glu	Glu	Leu	Glu	Phe	Glu
145					150					155					160

Val	Pro	Phe	Arg	Asp	Leu	Gly	Phe	Asn	Gly	Ala	Pro	Tyr	Arg	Ser	Thr
			165					170						175	

Cys	Leu	Leu	Gln	Pro	Thr	Ser	Ser	Ala	Leu	Val	Asn	Ala	Thr	Glu	Trp
			180					185					190		

716

Pro Pro Phe Val Val Thr Leu Asp Glu Val Glu Leu Ile His Phe Xaa
 195 200 205
 Arg Val Gln Phe His Leu Lys Asn Phe Asp Met Val Ile Val Tyr Lys
 210 215 220
 Asp Tyr Ser Lys Lys Val Thr Met Ile Asn Ala Ile Pro Val Ala Ser
 225 230 235 240
 Leu Asp Pro Ile Lys Glu Trp Leu Asn Ser Cys Asp Leu Lys Tyr Thr
 245 250 255
 Glu Gly Val Gln Ser Leu Asn Trp Thr Lys Ile Met Lys Thr Ile Val
 260 265 270
 Asp Asp Pro Glu Gly Phe Phe Glu Gln Gly Gly Trp Ser Phe Leu Glu
 275 280 285
 Pro Glu Gly Glu Gly Ser Asp Ala Glu Glu Gly Asp Ser Glu Ser Glu
 290 295 300
 Ile Glu Asp Glu Thr Phe Asn Pro Ser Glu Asp Asp Tyr Glu Glu Glu
 305 310 315 320
 Glu Glu Asp Ser Asp Glu Asp Tyr Ser Ser Glu Ala Glu Glu Ser Asp
 325 330 335
 Tyr Ser Lys Glu Ser Leu Gly Ser Glu Glu Glu Ser Gly Lys Asp Trp
 340 345 350
 Asp Glu Leu Glu Glu Glu Ala Arg Lys Ala Asp Arg Glu Ser Arg Tyr
 355 360 365
 Glu Glu Glu Glu Glu Gln Ser Arg Ser Met Ser Arg Lys Arg Lys Ala
 370 375 380
 Ser Val His Ser Ser Gly Arg Gly Ser Asn Arg Gly Ser Arg His Ser
 385 390 395 400
 Ser Ala Pro Pro Lys Lys Lys Arg Lys
 405

<210> 697

<211> 97

<212> PRT

<213> Homo sapiens

<400> 697

Asn Thr Gln Gly Leu Ile Phe Val Val Asp Ser Asn Asp Arg Glu Arg

717

```

      1             5             10             15
Ile Gln Glu Val Ala Asp Glu Leu Gln Lys Met Leu Leu Val Asp Glu
      20             25             30
Leu Arg Asp Ala Val Leu Leu Leu Phe Ala Asn Lys Gln Asp Leu Pro
      35             40             45
Asn Ala Met Ala Ile Ser Glu Met Thr Asp Lys Leu Gly Leu Gln Ser
      50             55             60
Leu Arg Asn Arg Thr Trp Tyr Val Gln Ala Thr Cys Ala Thr Gln Gly
      65             70             75             80
Thr Gly Leu Tyr Glu Gly Leu Asp Trp Leu Ser Asn Glu Leu Ser Lys
      85             90             95

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Arg

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<210> 698
<211> 46
<212> PRT
<213> Homo sapiens

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<400> 698
Trp Tyr Pro Glu Val Arg His His Cys Pro Asn Thr Pro Ile Ile Leu
  1             5             10             15
Val Gly Thr Lys Leu Asp Leu Arg Asp Asp Lys Asp Thr Ile Glu Lys
      20             25             30
Leu Lys Glu Lys Lys Leu Thr Pro Ile Thr Tyr Pro Gln Val
      35             40             45

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<210> 699
<211> 126
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 699
Pro His Thr Val Leu Val Glu Phe Ser Ser Val Val Ala Asp Thr Gln

```

718

1 5 10 15
 Glu Tyr Ile Ile Glu Xaa Thr Ala Asp Asp Ala Glu Thr Arg Glu Ala
 20 25 30
 Thr Glu Ile Ile Glu Gly Thr Gln Thr Glu Val Asp Ser His Ile Met
 35 40 45
 Lys Val Val Gln Gln Ile Val His Gln Ala Ser Ala Gly His Gln Ile
 50 55 60
 Ile Val Gln Asn Val Thr Met Asp Glu Glu Thr Ala Leu Gly Pro Glu
 65 70 75 80
 Ala Ala Ala Ala Asp Thr Ile Thr Ile Ala Thr Pro Glu Ser Leu Thr
 85 90 95
 Glu Gln Val Ala Met Thr Leu Pro Arg Pro Ser Ala Arg Ala Leu Cys
 100 105 110
 Leu Pro Pro Gly Gln Gly Gln Val Ala Leu Asn Arg Pro Leu
 115 120 125

<210> 700

<211> 417

<212> PRT

<213> Homo sapiens

<400> 700

Ala Thr Gln Gly Val Val Thr Tyr Tyr Leu Gln Glu Ser Gly Val Met
 1 5 10 15
 Pro Tyr Leu Ser Gln Leu Gly Phe Asp Val Val Gly Tyr Gly Cys Met
 20 25 30
 Thr Cys Ile Gly Asn Ser Gly Pro Leu Pro Glu Pro Val Val Glu Ala
 35 40 45
 Ile Thr Gln Gly Asp Leu Val Ala Val Gly Val Leu Ser Gly Asn Arg
 50 55 60
 Asn Phe Glu Gly Arg Val His Pro Asn Thr Arg Ala Asn Tyr Leu Ala
 65 70 75 80
 Ser Pro Pro Leu Val Ile Ala Tyr Ala Ile Ala Gly Thr Ile Arg Ile
 85 90 95
 Asp Phe Glu Lys Glu Pro Leu Gly Val Asn Ala Lys Gly Gln Gln Val
 100 105 110

Phe Leu Lys Asp Ile Trp Pro Thr Arg Asp Glu Ile Gln Ala Val Glu
 115 120 125
 Arg Gln Tyr Val Ile Pro Gly Met Phe Lys Glu Val Tyr Gln Lys Ile
 130 135 140
 Glu Thr Val Asn Glu Ser Trp Asn Ala Leu Ala Thr Pro Ser Asp Lys
 145 150 155 160
 Leu Phe Phe Trp Asn Ser Lys Ser Thr Tyr Ile Lys Ser Pro Pro Phe
 165 170 175
 Phe Glu Asn Leu Thr Leu Asp Leu Gln Pro Pro Lys Ser Ile Val Asp
 180 185 190
 Ala Tyr Val Leu Leu Asn Leu Gly Asp Ser Val Thr Thr Asp His Ile
 195 200 205
 Ser Pro Ala Gly Asn Ile Ala Arg Asn Ser Pro Ala Ala Arg Tyr Leu
 210 215 220
 Thr Asn Arg Gly Leu Thr Pro Arg Glu Phe Asn Ser Tyr Gly Ser Arg
 225 230 235 240
 Arg Gly Asn Asp Ala Val Met Ala Arg Gly Thr Phe Ala Asn Ile Arg
 245 250 255
 Leu Leu Asn Arg Phe Leu Asn Lys Gln Ala Pro Gln Thr Ile His Leu
 260 265 270
 Pro Ser Gly Glu Ile Leu Asp Val Phe Asp Ala Ala Glu Arg Tyr Gln
 275 280 285
 Gln Ala Gly Leu Pro Leu Ile Val Leu Ala Gly Lys Glu Tyr Gly Ala
 290 295 300
 Gly Ser Ser Arg Asp Trp Ala Ala Lys Gly Pro Phe Leu Leu Gly Ile
 305 310 315 320
 Lys Ala Val Leu Ala Glu Ser Tyr Glu Arg Ile His Arg Ser Asn Leu
 325 330 335
 Val Gly Met Gly Val Ile Pro Leu Glu Tyr Leu Pro Gly Glu Asn Ala
 340 345 350
 Asp Ala Leu Gly Leu Thr Gly Gln Glu Arg Tyr Thr Ile Ile Ile Pro
 355 360 365
 Glu Asn Leu Lys Pro Gln Met Lys Val Gln Val Lys Leu Asp Thr Gly
 370 375 380

720

Lys Thr Phe Gln Ala Val Met Arg Phe Asp Thr Asp Val Glu Leu Thr
 385 390 395 400

Tyr Phe Leu Asn Gly Gly Ile Leu Asn Tyr Met Ile Arg Lys Met Ala
 405 410 415

Lys

<210> 701

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 701

Lys Ile Thr Val Ile Asn Cys Val Ile Gln Asn Ser Tyr Gln Ser Val
 1 5 10 15

Leu Lys Leu Lys His Cys Lys Ser Gly Trp Gln Tyr Ser Val Leu Asn
 20 25 30

Thr Phe Leu Ala Leu Val His Leu Arg Asn Glu Cys Ser Gly Gly Phe
 35 40 45

Tyr Pro Arg Lys His Val Val Ile Arg Ile Val Gly Val Pro Ile Ile
 50 55 60

Thr Ile Val Phe Cys Ile Leu Lys Lys Tyr Ser Pro His Phe Lys Cys
 65 70 75 80

Phe Ile Leu Glu Asn Ser Leu Met His Thr Cys Gln Ile Tyr Ile Tyr
 85 90 95

Ser Thr Asn Val Thr Phe Leu Phe Phe Val Leu Asp Val Arg Ala Cys
 100 105 110

Ser Tyr Val Arg Tyr Leu His Lys Leu Leu His Tyr Phe Phe Leu Cys
 115 120 125

Asn Thr Phe Leu Phe Val Tyr Val Val Gln Ile Tyr Ser Phe Leu Lys
 130 135 140

Xaa

145

<210> 702

<211> 317

<212> PRT

<213> Homo sapiens

<400> 702

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Asp Phe Ser Asn Leu Gly Thr Thr His Leu Leu Arg Leu Thr Ser Ser
  1             5             10             15

Leu Thr Thr Lys Gly Ala Ser Ser Phe Lys Ile Thr Arg Gly Ile Glu
      20             25             30

Ala Val Gly Gly Lys Leu Ser Val Thr Ala Thr Arg Glu Asn Met Ala
      35             40             45

Tyr Thr Val Glu Cys Leu Arg Gly Asp Val Asp Ile Leu Met Glu Phe
      50             55             60

Leu Leu Asn Val Thr Thr Ala Pro Glu Phe Arg Arg Trp Glu Val Ala
      65             70             75             80

Asp Leu Gln Pro Gln Leu Lys Ile Asp Lys Ala Val Ala Phe Gln Asn
      85             90             95

Pro Gln Thr His Val Ile Glu Asn Leu His Ala Ala Ala Tyr Arg Asn
      100            105            110

Ala Leu Ala Asn Pro Leu Tyr Cys Pro Asp Tyr Arg Ile Gly Lys Val
      115            120            125

Thr Ser Glu Glu Leu His Tyr Phe Val Gln Asn His Phe Thr Ser Ala
      130            135            140

Arg Met Ala Leu Ile Gly Leu Gly Val Ser His Pro Val Leu Lys Gln
      145            150            155            160

Val Ala Glu Gln Phe Leu Asn Met Arg Gly Gly Leu Gly Leu Ser Gly
      165            170            175

Ala Lys Ala Asn Tyr Arg Gly Gly Glu Ile Arg Glu Gln Asn Gly Asp
      180            185            190

Ser Leu Val His Ala Ala Phe Val Ala Glu Ser Ala Val Ala Gly Ser
      195            200            205

Ala Glu Ala Asn Ala Phe Ser Val Leu Gln His Val Leu Gly Ala Gly
      210            215            220

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722

Pro His Val Lys Arg Gly Ser Asn Thr Thr Ser His Leu His Gln Ala
 225 230 235 240
 Val Ala Lys Ala Thr Gln Gln Pro Phe Asp Val Ser Ala Phe Asn Ala
 245 250 255
 Ser Tyr Ser Asp Ser Gly Leu Phe Gly Ile Tyr Thr Ile Ser Gln Ala
 260 265 270
 Thr Ala Ala Gly Asp Val Ile Lys Ala Ala Tyr Asn Gln Val Lys Thr
 275 280 285
 Ile Ala Gln Gly Asn Leu Ser Asn Thr Asp Val Gln Ala Ala Lys Asn
 290 295 300
 Lys Leu Lys Ala Gly Ile Pro Asn Val Ser Gly Val Phe
 305 310 315

<210> 703

<211> 357

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 703

Lys Asp Leu Val Met Ala Thr Gly Leu Ser Glu His His Asn Met Val
 1 5 10 15
 Trp Glu Val Lys Thr Asn Gln Met Pro Asn Ala Val Gln Lys Leu Leu
 20 25 30
 Leu Val Met Asp Lys Arg Ala Ser Gly Met Asn Asp Ser Leu Glu Leu
 35 40 45
 Leu Gln Cys Asn Glu Asn Leu Pro Ser Ser Pro Gly Tyr Asn Ser Cys
 50 55 60
 Asp Glu His Met Glu Leu Asp Asp Leu Pro Glu Leu Gln Ala Val Gln
 65 70 75 80
 Ser Asp Pro Thr Gln Ser Gly Met Tyr Gln Leu Ser Ser Asp Val Ser
 85 90 95
 His Gln Glu Tyr Pro Arg Ser Ser Trp Asn Gln Asn Thr Ser Asp Ile

723

100	105	110
Pro Glu Thr Thr Tyr Arg Glu Asn Glu Val Asp Trp Leu Thr Glu Leu		
115	120	125
Ala Asn Ile Ala Thr Ser Pro Gln Ser Pro Leu Met Gln Cys Ser Phe		
130	135	140
Tyr Asn Arg Ser Ser Pro Val His Ile Ile Ala Thr Ser Lys Ser Leu		
145	150	155
His Ser Tyr Ala Arg Pro Pro Pro Val Ser Ser Ser Ser Lys Ser Glu		
165	170	175
Pro Ala Phe Pro His His His Trp Lys Glu Glu Thr Pro Val Arg His		
180	185	190
Glu Arg Ala Asn Ser Glu Ser Glu Ser Gly Ile Phe Cys Met Ser Ser		
195	200	205
Leu Ser Asp Asp Asp Asp Leu Gly Trp Cys Asn Ser Trp Pro Ser Thr		
210	215	220
Val Trp His Cys Phe Leu Lys Gly Thr Arg Leu Cys Xaa His Lys Gly		
225	230	235
Ser Asn Lys Glu Trp Gln Asp Val Glu Asp Phe Ala Arg Ala Glu Gly		
245	250	255
Cys Asp Asn Glu Glu Asp Leu Gln Met Gly Ile His Lys Gly Tyr Gly		
260	265	270
Ser Asp Gly Leu Lys Leu Leu Ser His Glu Glu Ser Val Ser Phe Gly		
275	280	285
Glu Ser Val Leu Lys Leu Thr Phe Asp Pro Gly Thr Val Glu Asp Gly		
290	295	300
Leu Leu Thr Val Glu Cys Lys Leu Asp His Pro Phe Tyr Val Lys Asn		
305	310	315
Lys Gly Trp Ser Ser Phe Tyr Pro Ser Leu Thr Val Val Gln His Gly		
325	330	335
Ile Pro Cys Cys Glu Ser Ser Tyr Trp Arg Cys Met Ser Thr Ser Trp		
340	345	350
Thr Pro Arg Cys His		
355		

724

<210> 704

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 704

Ser	His	Leu	Lys	Lys	Arg	Thr	Cys	Gly	Ser	Trp	Thr	Ala	Ser	Lys	Pro
1				5					10					15	

Phe	Leu	Ser	Val	Cys	Xaa	Val	Phe	Leu	Leu	Val	Pro	Leu	Leu	Pro	Pro
			20					25					30		

Leu	Gln	Asp	Phe	Arg	Gly	Thr	Pro	Thr	Ser	Leu	Cys	Pro	Ser	Ser	Leu
		35					40					45			

Cys	Pro	Ile	Arg	Trp	Gln	Gly	Xaa	Cys	Val	Glu	Arg	Pro	Gly	Arg	Cys
	50					55					60				

Arg	Asn	Gln	Ser	Pro	Gly	Gln	Trp	Cys	Leu	Ser	Ser	Pro	Ser	Leu	Cys
65					70					75				80	

Pro	Cys	Ala	Pro	Ser	Cys	Pro	Arg	Leu	Gln	Pro	Arg	Pro	Trp	Thr	Cys
				85					90					95	

Ala	Pro	Val	Cys	Thr	Cys	Arg	His	Arg	Gly	Glu	Gly	Gly	Val	Phe	Leu
			100					105					110		

Gly	Leu	Pro	Gln	Thr	Leu	Pro	Leu	Ala	Ala	Ser	Leu	Pro	Cys	Leu	His
		115					120					125			

Ser	Ser	Thr	Ile	Thr	Ile	Ser	Pro	Lys	Leu	Leu	Leu	Thr	Gln	Ala	Lys
	130					135					140				

Ala	Ala	Ser	Gly	Leu	Pro	Ser	Thr	Ala	Leu	Leu	His	Leu	Ala	Tyr	His
145					150					155					160

Ser	Pro	Gly	Pro	Pro	Gly	Glu	Pro	Val	Leu	Cys	Ser	Leu	Cys	Phe	Arg
			165						170					175	

Leu	Val	Cys	Ala	Pro
-----	-----	-----	-----	-----

180

<210> 705

<211> 377

<212> PRT

<213> Homo sapiens

<400> 705

Ala Ala Ile Arg Gln Ala Leu Met Pro Val Ile Leu Gln Asp Ala Pro
1 5 10 15

Ser Ala Pro Gly His Ala Pro His Arg Gln Ala Ser Leu Ser Ile Ser
20 25 30

Val Ser Asn Ser Gln Ile Gln Glu Asn Val Asp Ile Ala Thr Val Tyr
35 40 45

Gln Ile Phe Pro Asp Glu Val Leu Gly Ser Gly Gln Phe Gly Val Val
50 55 60

Tyr Gly Gly Lys His Arg Lys Thr Gly Arg Asp Val Ala Val Lys Val
65 70 75 80

Ile Asp Lys Leu Arg Phe Pro Thr Lys Gln Glu Ser Gln Leu Arg Asn
85 90 95

Glu Val Ala Ile Leu Gln Ser Leu Arg His Pro Gly Ile Val Asn Leu
100 105 110

Glu Cys Met Phe Glu Thr Pro Glu Lys Val Phe Val Val Met Glu Lys
115 120 125

Leu His Gly Asp Met Leu Glu Met Ile Leu Ser Ser Glu Lys Gly Arg
130 135 140

Leu Pro Glu Arg Leu Thr Lys Phe Leu Ile Thr Gln Ile Leu Val Ala
145 150 155 160

Leu Arg His Leu His Phe Lys Asn Ile Val His Cys Asp Leu Lys Pro
165 170 175

Glu Asn Val Leu Leu Ala Ser Ala Asp Pro Phe Pro Gln Val Lys Leu
180 185 190

Cys Asp Phe Gly Phe Ala Arg Ile Ile Gly Glu Lys Ser Phe Arg Arg
195 200 205

Ser Val Val Gly Thr Pro Ala Tyr Leu Ala Pro Glu Val Leu Leu Asn
210 215 220

726

Gln Gly Tyr Asn Arg Ser Leu Asp Met Trp Ser Val Gly Val Ile Met
 225 230 235 240
 Tyr Val Ser Leu Ser Gly Thr Phe Pro Phe Asn Glu Asp Glu Asp Ile
 245 250 255
 Asn Asp Gln Ile Gln Asn Ala Ala Phe Met Tyr Pro Ala Ser Pro Trp
 260 265 270
 Ser His Ile Ser Ala Gly Ala Ile Asp Leu Ile Asn Asn Leu Leu Gln
 275 280 285
 Val Lys Met Arg Lys Arg Tyr Ser Val Asp Lys Ser Leu Ser His Pro
 290 295 300
 Trp Leu Gln Glu Tyr Gln Thr Trp Leu Asp Leu Arg Glu Leu Glu Gly
 305 310 315 320
 Lys Met Gly Glu Arg Tyr Ile Thr His Glu Ser Asp Asp Ala Arg Trp
 325 330 335
 Glu Gln Phe Ala Ala Glu His Pro Leu Pro Gly Ser Gly Leu Pro Thr
 340 345 350
 Asp Arg Asp Leu Gly Gly Ala Cys Pro Pro Gln Asp His Asp Met Gln
 355 360 365
 Gly Leu Ala Glu Arg Ile Ser Val Leu
 370 375

<210> 706

<211> 414

<212> PRT

<213> Homo sapiens

<400> 706

Ser Arg Ala Pro Cys Pro Pro Thr Pro Gln Glu Gly Leu Asp Asp Gly
 1 5 10 15
 Pro Asp Phe Leu Ser Glu Glu Asp Arg Gly Leu Lys Ala Ile Asn Val
 20 25 30
 Asp Leu Gln Ser Asp Ala Ala Leu Gln Val Asp Ile Ser Asp Ala Leu
 35 40 45
 Ser Glu Arg Asp Lys Val Lys Phe Thr Val His Thr Lys Ser Ser Leu
 50 55 60

Pro	Asn	Phe	Lys	Gln	Asn	Glu	Phe	Ser	Val	Val	Arg	Gln	His	Glu	Glu	65	70	75	80
Phe	Ile	Trp	Leu	His	Asp	Ser	Phe	Val	Glu	Asn	Glu	Asp	Tyr	Ala	Gly	85	90	95	
Tyr	Ile	Ile	Pro	Pro	Ala	Pro	Pro	Arg	Pro	Asp	Phe	Asp	Ala	Ser	Arg	100	105	110	
Glu	Lys	Leu	Gln	Lys	Leu	Gly	Glu	Gly	Glu	Gly	Ser	Met	Thr	Lys	Glu	115	120	125	
Glu	Phe	Thr	Lys	Met	Lys	Gln	Glu	Leu	Glu	Ala	Glu	Tyr	Leu	Ala	Ile	130	135	140	
Phe	Lys	Lys	Thr	Val	Ala	Met	His	Glu	Val	Phe	Leu	Cys	Arg	Val	Ala	145	150	155	160
Ala	His	Pro	Ile	Leu	Arg	Arg	Asp	Leu	Asn	Phe	His	Val	Phe	Leu	Glu	165	170	175	
Tyr	Asn	Gln	Asp	Leu	Ser	Val	Arg	Gly	Lys	Asn	Lys	Lys	Glu	Lys	Leu	180	185	190	
Glu	Asp	Phe	Phe	Lys	Asn	Met	Val	Lys	Ser	Ala	Asp	Gly	Val	Ile	Val	195	200	205	
Ser	Gly	Val	Lys	Asp	Val	Asp	Asp	Phe	Phe	Glu	His	Glu	Arg	Thr	Phe	210	215	220	
Leu	Leu	Glu	Tyr	His	Asn	Arg	Val	Lys	Asp	Ala	Ser	Ala	Lys	Ser	Asp	225	230	235	240
Arg	Met	Thr	Arg	Ser	His	Lys	Ser	Ala	Ala	Asp	Asp	Tyr	Asn	Arg	Ile	245	250	255	
Gly	Ser	Ser	Leu	Tyr	Ala	Leu	Gly	Thr	Gln	Asp	Ser	Thr	Asp	Ile	Cys	260	265	270	
Lys	Phe	Phe	Leu	Lys	Val	Ser	Glu	Leu	Phe	Asp	Lys	Thr	Arg	Lys	Ile	275	280	285	
Glu	Ala	Arg	Val	Ser	Ala	Asp	Glu	Asp	Leu	Lys	Leu	Ser	Asp	Leu	Leu	290	295	300	
Lys	Tyr	Tyr	Leu	Arg	Glu	Ser	Gln	Ala	Ala	Lys	Asp	Leu	Leu	Tyr	Arg	305	310	315	320
Arg	Ser	Arg	Ser	Leu	Val	Asp	Tyr	Glu	Asn	Ala	Asn	Lys	Ala	Leu	Asp	325	330	335	

728

Lys Ala Arg Ala Lys Asn Lys Asp Val Leu Gln Ala Glu Thr Ser Gln
 340 345 350

Gln Leu Cys Cys Gln Lys Phe Glu Lys Ile Ser Glu Ser Ala Lys Gln
 355 360 365

Glu Leu Ile Asp Phe Lys Thr Arg Arg Val Ala Ala Phe Arg Lys Asn
 370 375 380

Leu Val Glu Leu Ala Glu Leu Glu Leu Lys His Ala Lys Gly Asn Leu
 385 390 395 400

Gln Leu Leu Gln Asn Cys Leu Ala Val Leu Asn Gly Asp Thr
 405 410

<210> 707

<211> 123

<212> PRT

<213> Homo sapiens

<400> 707

Ala Arg Ala Glu Phe Gly Thr Arg Phe His Phe Pro Tyr Leu Leu Arg
 1 5 10 15

Ala Ser Thr Ser Phe Phe Ser Leu Cys Pro Phe Cys Phe Ser Gln Ser
 20 25 30

Pro Arg Ile Met Lys Val Ala Ser Gly Ser Thr Ala Thr Ala Ala Ala
 35 40 45

Gly Pro Ser Cys Ala Leu Lys Ala Gly Lys Thr Ala Ser Gly Ala Gly
 50 55 60

Glu Val Val Arg Cys Leu Ser Glu Gln Ser Val Ala Ile Ser Arg Cys
 65 70 75 80

Ala Gly Gly Ala Gly Ala Arg Leu Pro Ala Leu Leu Asp Glu Gln Gln
 85 90 95

Val Asn Val Leu Leu Tyr Asp Met Asn Gly Cys Tyr Ser Arg Leu Lys
 100 105 110

Glu Leu Val Pro Thr Leu Pro Gln Asn Arg Lys
 115 120

<210> 708

<211> 115

729

<212> PRT

<213> Homo sapiens

<400> 708

Gly Arg Glu Tyr Leu Val Pro Gln Gln Gly Arg Gln Phe Leu Ser Gln
 1 5 10 15

Lys Thr Val Cys Ser Val Val Lys Ile Val Ala Cys Met Phe Ser Ser
 20 25 30

Glu Arg Val Leu Leu Pro Tyr Ser Leu Ser Ala Ser Pro Ala Cys Ser
 35 40 45

Cys Cys Met Val Ile Ala Leu Gly His Gln Ser Asn Asp Cys Lys Ser
 50 55 60

Ala Trp Ile Phe Thr Cys Arg Gly Tyr Ser Cys Ile Val Arg Ser Pro
 65 70 75 80

Ser Pro Ala Glu Ser Ser Leu His Trp Leu Ala Val Cys Cys Val Phe
 85 90 95

His Ser Phe Gln Lys Ser Tyr Ile Val Ser Leu Asp Ile Phe Lys Asn
 100 105 110

Cys Asp Phe
 115

<210> 709

<211> 318

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 709

Gly Arg Arg Asp Gln Pro Pro Val Ser Ser Gly Arg Pro Pro Leu Trp
 1 5 10 15

Gly Leu Arg Gly Met Met Glu Ala Leu Gly Phe Leu Lys Leu Glu Val
 20 25 30

Asn Gly Pro Met Val Thr Val Ala Leu Ser Val Ala Leu Leu Ala Leu
 35 40 45

Leu Lys Trp Tyr Ser Thr Ser Ala Phe Ser Arg Leu Glu Lys Leu Gly

730

50		55		60	
Leu Arg His Pro Lys Pro Ser Pro Phe Ile Gly Asn Leu Thr Phe Phe					
65		70		75	80
Arg Gln Gly Phe Trp Glu Ser Gln Met Glu Leu Arg Lys Leu Tyr Gly					
	85		90		95
Pro Leu Cys Gly Tyr Tyr Leu Gly Arg Arg Met Phe Ile Val Ile Ser					
	100		105		110
Glu Pro Asp Met Ile Lys Gln Val Leu Val Glu Asn Phe Ser Asn Phe					
	115		120		125
Thr Asn Arg Met Ala Ser Gly Leu Glu Phe Lys Ser Val Ala Asp Ser					
	130		135		140
Val Leu Phe Leu Arg Asp Lys Arg Trp Glu Glu Val Arg Gly Ala Leu					
	145		150		155
Met Ser Ala Phe Ser Pro Glu Lys Leu Asn Glu Met Val Pro Leu Ile					
	165		170		175
Ser Gln Ala Cys Asp Leu Leu Leu Ala His Leu Lys Arg Tyr Ala Glu					
	180		185		190
Ser Gly Asp Ala Phe Asp Ile Gln Arg Cys Tyr Cys Asn Tyr Thr Thr					
	195		200		205
Asp Val Val Ala Ser Val Ala Phe Gly Thr Pro Val Asp Ser Trp Gln					
	210		215		220
Ala Pro Glu Asp Pro Phe Val Lys His Cys Lys Arg Phe Phe Glu Phe					
	225		230		235
Cys Ile Pro Arg Pro Ile Leu Val Leu Leu Leu Ser Phe Pro Ser Ile					
	245		250		255
Met Val Pro Leu Ala Arg Ile Leu Pro Asn Lys Asn Arg Asp Glu Leu					
	260		265		270
Asn Gly Phe Phe Asn Lys Leu Ile Arg Asn Val Ile Cys Leu Ala Gly					
	275		280		285
Pro Ala Ser Cys Arg Arg Glu Ala Glu Arg Leu Pro Pro Asn Gly Pro					
	290		295		300
Gly Cys Pro Thr Phe Cys Lys Ser His Gly Xaa Ala Arg Leu					
305		310		315	

731

<210> 710
 <211> 188
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 710

Gly	Cys	Leu	Gly	Lys	Arg	Met	Ile	Leu	Asn	Lys	Ala	Leu	Met	Leu	Gly
1				5					10					15	
Ala	Leu	Ala	Leu	Thr	Thr	Val	Met	Ser	Pro	Cys	Gly	Gly	Glu	Asp	Ile
			20					25					30		
Val	Ala	Asp	His	Val	Ala	Ser	Tyr	Gly	Val	Asn	Leu	Tyr	Gln	Ser	Tyr
		35					40					45			
Gly	Pro	Ser	Gly	Gln	Tyr	Thr	His	Glu	Phe	Asp	Gly	Asp	Glu	Gln	Phe
	50					55					60				
Tyr	Val	Asp	Leu	Gly	Arg	Lys	Glu	Thr	Val	Trp	Cys	Leu	Pro	Val	Leu
65					70					75					80
Arg	Gln	Phe	Arg	Phe	Asp	Pro	Gln	Phe	Ala	Leu	Thr	Asn	Ile	Ala	Val
				85					90					95	
Leu	Lys	His	Asn	Leu	Asn	Ser	Leu	Ile	Lys	Arg	Ser	Asn	Ser	Thr	Ala
			100					105					110		
Ala	Thr	Asn	Glu	Val	Pro	Glu	Val	Thr	Val	Phe	Ser	Lys	Ser	Pro	Val
		115					120					125			
Thr	Leu	Gly	Gln	Pro	Asn	Ile	Leu	Ile	Cys	Leu	Val	Asp	Asn	Ile	Phe
	130					135						140			
Pro	Pro	Val	Val	Asn	Ile	Thr	Trp	Leu	Ser	Asn	Gly	His	Ser	Val	Thr
145					150					155					160
Glu	Gly	Val	Ser	Glu	Thr	Ser	Phe	Leu	Ser	Lys	Ser	Asp	His	Ser	Phe
				165					170					175	
Phe	Lys	Ile	Ser	Tyr	Leu	Xaa	Leu	Pro	Pro	Phe	Cys				
			180					185							

<210> 711

732

<211> 374

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 711

Gly	Glu	Val	Leu	Arg	Arg	Gly	Lys	Ala	Glu	Leu	Glu	Glu	Gln	Lys	Arg
1				5					10					15	

Leu	Leu	Asp	Arg	Thr	Val	Asp	Arg	Leu	Asn	Lys	Glu	Leu	Glu	Lys	Ile
			20					25					30		

Gly	Glu	Asp	Ser	Lys	Gln	Ala	Leu	Gln	Gln	Leu	Gln	Ala	Gln	Leu	Glu
		35					40					45			

Asp	Tyr	Lys	Glu	Lys	Ala	Arg	Arg	Glu	Val	Ala	Asp	Ala	Gln	Arg	Gln
	50					55					60				

Ala	Lys	Asp	Trp	Ala	Ser	Glu	Ala	Glu	Lys	Thr	Ser	Gly	Gly	Leu	Ser
65					70					75				80	

Arg	Leu	Gln	Asp	Xaa	Ile	Gln	Arg	Leu	Arg	Gln	Ala	Leu	Gln	Ala	Ser
			85					90						95	

Gln	Ala	Glu	Arg	Asp	Thr	Ala	Arg	Leu	Asp	Lys	Glu	Leu	Leu	Ala	Gln
		100						105					110		

Arg	Leu	Gln	Gly	Leu	Glu	Gln	Glu	Ala	Glu	Asn	Lys	Lys	Arg	Ser	Gln
	115					120						125			

Asp	Asp	Arg	Ala	Arg	Gln	Leu	Lys	Gly	Leu	Glu	Glu	Lys	Val	Ser	Arg
	130				135						140				

Leu	Glu	Thr	Glu	Leu	Asp	Glu	Glu	Lys	Asn	Thr	Val	Glu	Leu	Leu	Thr
145				150					155					160	

Asp	Arg	Val	Asn	Arg	Gly	Arg	Asp	Gln	Val	Asp	Gln	Leu	Arg	Thr	Glu
		165						170					175		

Leu	Met	Gln	Glu	Arg	Ser	Ala	Arg	Gln	Asp	Leu	Glu	Cys	Asp	Lys	Ile
		180					185					190			

Ser	Leu	Glu	Arg	Gln	Asn	Lys	Asp	Leu	Lys	Thr	Arg	Leu	Ala	Ser	Ser
	195					200						205			

Glu	Gly	Phe	Gln	Lys	Pro	Ser	Ala	Ser	Leu	Ser	Gln	Leu	Glu	Ser	Gln
210					215						220				

733

Asn Gln Leu Leu Gln Glu Arg Leu Gln Ala Glu Glu Arg Glu Lys Thr
 225 230 235 240
 Val Leu Gln Ser Thr Asn Arg Lys Leu Glu Arg Lys Val Lys Glu Leu
 245 250 255
 Ser Ile Gln Ile Glu Asp Glu Arg Gln His Val Asn Asp Gln Lys Asp
 260 265 270
 Gln Leu Ser Leu Arg Val Lys Ala Leu Lys Arg Gln Val Asp Glu Ala
 275 280 285
 Glu Glu Glu Ile Glu Arg Leu Asp Gly Leu Arg Lys Lys Ala Gln Arg
 290 295 300
 Glu Val Glu Glu Gln His Glu Val Asn Glu Gln Leu Gln Ala Arg Ile
 305 310 315 320
 Lys Ser Leu Glu Lys Asp Ser Trp Arg Lys Ala Ser Arg Ser Ala Ala
 325 330 335
 Glu Ser Ala Leu Lys Asn Glu Gly Leu Ser Ser Asp Glu Glu Phe Asp
 340 345 350
 Ser Val Tyr Asp Pro Ser Ser Ile Ala Ser Leu Leu Thr Glu Ser Asn
 355 360 365
 Leu Gln Thr Ser Ser Cys
 370

<210> 712

<211> 413

<212> PRT

<213> Homo sapiens

<400> 712

Gly Gly Phe Gly Leu Leu Gly Phe Leu Ser Ala Leu Leu Ala Leu Val
 1 5 10 15
 Leu Arg Ala Arg Ala Gly Ser Gln Thr Pro Gln Thr Leu Leu Leu Pro
 20 25 30
 Ala Ala Ala Phe Arg Arg Gly Glu Thr Pro Arg Phe Lys Met Ser Leu
 35 40 45
 Phe Gly Thr Thr Ser Gly Phe Gly Thr Ser Gly Thr Ser Met Phe Gly
 50 55 60

Ser	Ala	Thr	Thr	Asp	Asn	His	Asn	Pro	Met	Lys	Asp	Ile	Glu	Val	Thr	65	70	75	80
Ser	Ser	Pro	Asp	Asp	Ser	Ile	Gly	Cys	Leu	Ser	Phe	Ser	Pro	Pro	Thr	85	90	95	
Leu	Pro	Gly	Asn	Phe	Leu	Ile	Ala	Gly	Ser	Trp	Ala	Asn	Asp	Val	Arg	100	105	110	
Cys	Trp	Glu	Val	Gln	Asp	Ser	Gly	Gln	Thr	Ile	Pro	Lys	Ala	Gln	Gln	115	120	125	
Met	His	Thr	Gly	Pro	Val	Leu	Asp	Val	Cys	Trp	Ser	Asp	Asp	Gly	Ser	130	135	140	
Lys	Val	Phe	Thr	Ala	Ser	Cys	Asp	Lys	Thr	Ala	Lys	Met	Trp	Asp	Leu	145	150	155	160
Ser	Ser	Asn	Gln	Ala	Ile	Gln	Ile	Ala	Gln	His	Asp	Ala	Pro	Val	Lys	165	170	175	
Thr	Ile	His	Trp	Ile	Lys	Ala	Pro	Asn	Tyr	Ser	Cys	Val	Met	Thr	Gly	180	185	190	
Ser	Trp	Asp	Lys	Thr	Leu	Lys	Phe	Trp	Asp	Thr	Arg	Ser	Ser	Asn	Pro	195	200	205	
Met	Met	Val	Leu	Gln	Leu	Pro	Glu	Arg	Cys	Tyr	Cys	Ala	Asp	Val	Ile	210	215	220	
Tyr	Pro	Met	Ala	Val	Val	Ala	Thr	Ala	Glu	Arg	Gly	Leu	Ile	Val	Tyr	225	230	235	240
Gln	Leu	Glu	Asn	Gln	Pro	Ser	Glu	Phe	Arg	Arg	Ile	Glu	Ser	Pro	Leu	245	250	255	
Lys	His	Gln	His	Arg	Cys	Val	Ala	Ile	Phe	Lys	Asp	Lys	Gln	Asn	Lys	260	265	270	
Pro	Thr	Gly	Phe	Ala	Leu	Gly	Ser	Ile	Glu	Gly	Arg	Val	Ala	Ile	His	275	280	285	
Tyr	Ile	Asn	Pro	Pro	Asn	Pro	Ala	Lys	Asp	Asn	Phe	Thr	Phe	Lys	Cys	290	295	300	
His	Arg	Ser	Asn	Gly	Thr	Asn	Thr	Ser	Ala	Pro	Gln	Asp	Ile	Tyr	Ala	305	310	315	320
Val	Asn	Gly	Ile	Ala	Phe	His	Pro	Val	His	Gly	Thr	Leu	Ala	Thr	Val	325	330	335	

735

Gly Ser Asp Gly Arg Phe Ser Phe Trp Asp Lys Asp Ala Arg Thr Lys
 340 345 350
 Leu Lys Thr Ser Glu Gln Leu Asp Gln Pro Ile Ser Ala Cys Cys Phe
 355 360 365
 Asn His Asn Gly Asn Ile Phe Ala Tyr Ala Ser Ser Tyr Asp Trp Ser
 370 375 380
 Lys Gly His Glu Phe Tyr Asn Pro Gln Lys Lys Asn Tyr Ile Phe Leu
 385 390 395 400
 Arg Asn Ala Ala Glu Glu Leu Lys Pro Arg Asn Lys Lys
 405 410

<210> 713
 <211> 374
 <212> PRT
 <213> Homo sapiens

<400> 713
 Ser Thr His Ala Ser Ala His Ala Ser Gly Pro Thr Arg Pro Gly Ala
 1 5 10 15
 Trp Ser Ala Ala Ala Ala Gly Pro Gly Ala Gly Ala Ala Ala Ala Ala
 20 25 30
 Thr Gly Gly Gly Gly Gly Ala Leu Glu Ala Ala Met Ala Lys Gln Tyr
 35 40 45
 Asp Ser Val Glu Cys Pro Phe Cys Asp Glu Val Ser Lys Tyr Glu Lys
 50 55 60
 Leu Ala Lys Ile Gly Gln Gly Thr Phe Gly Glu Val Phe Lys Ala Arg
 65 70 75 80
 His Arg Lys Thr Gly Gln Lys Val Ala Leu Lys Lys Val Leu Met Glu
 85 90 95
 Asn Glu Lys Glu Gly Phe Pro Ile Thr Ala Leu Arg Glu Ile Lys Ile
 100 105 110
 Leu Gln Leu Leu Lys His Glu Asn Val Val Asn Leu Ile Glu Ile Cys
 115 120 125
 Arg Thr Lys Ala Ser Pro Tyr Asn Arg Cys Lys Gly Ser Ile Tyr Leu
 130 135 140
 Val Phe Asp Phe Cys Glu His Asp Leu Ala Gly Leu Leu Ser Asn Val

145		150		155		160
Leu Val Lys Phe Thr Leu Ser Glu Ile Lys Arg Val Met Gln Met Leu						
		165		170		175
Leu Asn Gly Leu Tyr Tyr Ile His Arg Asn Lys Ile Leu His Arg Asp						
		180		185		190
Met Lys Ala Ala Asn Val Leu Ile Thr Arg Asp Gly Val Leu Lys Leu						
		195		200		205
Ala Asp Phe Gly Leu Ala Arg Ala Phe Ser Leu Ala Lys Asn Ser Gln						
		210		215		220
Pro Asn Arg Tyr Thr Asn Arg Val Val Thr Leu Trp Tyr Arg Pro Pro						
		225		230		235
Glu Leu Leu Leu Gly Glu Arg Asp Tyr Gly Pro Pro Ile Asp Leu Trp						
		245		250		255
Gly Ala Gly Cys Ile Met Ala Glu Met Trp Thr Arg Ser Pro Ile Met						
		260		265		270
Gln Gly Asn Thr Glu Gln His Gln Leu Ala Leu Ile Ser Gln Leu Cys						
		275		280		285
Gly Ser Ile Thr Pro Glu Val Trp Pro Asn Val Asp Asn Tyr Glu Leu						
		290		295		300
Tyr Glu Lys Leu Glu Leu Val Lys Gly Gln Lys Arg Lys Val Lys Asp						
		305		310		315
Arg Leu Lys Ala Met Cys Val Thr His Thr His Trp Thr Ser Ser Thr						
		325		330		335
Ser Cys Trp Cys Trp Thr Leu Pro Ser Ala Ser Thr Ala Met Thr Pro						
		340		345		350
Ser Thr Thr Thr Ser Ser Gly Pro Thr Pro Cys Pro Pro Thr Ser Arg						
		355		360		365
Ala Cys Ser Pro Pro Thr						
		370				

<210> 714

<211> 764

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (725)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 714
 Asp Asp Val Gln Ser Ile Asn Trp Leu Arg Asp Gly Val Gln Leu Ala
 1 5 10 15
 Glu Ser Asn Arg Thr Arg Ile Thr Gly Glu Glu Val Glu Val Gln Asp
 20 25 30
 Ser Val Pro Ala Asp Ser Gly Leu Tyr Ala Cys Xaa Thr Ser Ser Pro
 35 40 45
 Ser Gly Ser Asp Thr Thr Tyr Phe Ser Val Asn Val Ser Xaa Ala Leu
 50 55 60
 Pro Ser Ser Glu Asp Asp Asp Asp Asp Asp Ser Ser Ser Glu Gly
 65 70 75 80
 Xaa Glu Thr Asp Asn Thr Lys Pro Asn Arg Met Pro Val Ala Pro Tyr
 85 90 95
 Trp Thr Ser Pro Glu Lys Met Glu Lys Lys Leu His Ala Val Pro Ala
 100 105 110
 Ala Lys Thr Val Lys Phe Lys Cys Pro Ser Ser Gly Xaa Pro Asn Pro
 115 120 125
 Thr Leu Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Pro Asp His Arg

130	135	140
Ile Gly Gly Tyr Lys Val Arg Tyr Ala Thr Trp Ser Ile Ile Met Asp		
145	150	155 160
Ser Val Val Pro Ser Asp Lys Gly Asn Tyr Thr Cys Ile Val Glu Asn		
	165	170 175
Glu Tyr Gly Ser Ile Asn His Thr Tyr Gln Leu Asp Val Val Glu Arg		
	180	185 190
Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr		
	195	200 205
Val Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp		
	210	215 220
Pro Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser		
	225	230 235 240
Lys Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Thr Ala		
	245	250 255
Gly Val Asn Thr Thr Asp Lys Glu Met Glu Val Leu His Leu Arg Asn		
	260	265 270
Val Ser Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser		
	275	280 285
Ile Gly Leu Ser His His Ser Ala Trp Leu Thr Val Leu Glu Ala Leu		
	290	295 300
Glu Glu Arg Pro Ala Val Met Thr Ser Pro Leu Tyr Leu Glu Ile Ile		
	305	310 315 320
Ile Tyr Cys Thr Gly Ala Phe Leu Ile Ser Cys Met Val Gly Ser Val		
	325	330 335
Ile Val Tyr Lys Met Lys Ser Gly Thr Lys Lys Ser Asp Phe His Ser		
	340	345 350
Gln Met Ala Val His Lys Leu Ala Lys Ser Ile Pro Leu Arg Arg Gln		
	355	360 365
Val Thr Val Ser Ala Asp Ser Ser Ala Ser Met Asn Ser Gly Val Leu		
	370	375 380
Leu Val Arg Pro Ser Arg Leu Ser Ser Ser Gly Thr Pro Met Leu Ala		
	385	390 395 400
Gly Val Ser Glu Tyr Glu Leu Pro Glu Asp Pro Arg Trp Glu Leu Pro		

				405					410					415	
Arg	Asp	Arg	Leu	Val	Leu	Gly	Lys	Pro	Leu	Gly	Glu	Gly	Cys	Phe	Gly
			420					425					430		
Gln	Val	Val	Leu	Ala	Glu	Ala	Ile	Gly	Leu	Asp	Lys	Asp	Lys	Pro	Asn
			435				440					445			
Arg	Val	Thr	Lys	Val	Ala	Val	Lys	Met	Leu	Lys	Ser	Asp	Ala	Thr	Glu
			450				455					460			
Lys	Asp	Leu	Ser	Asp	Leu	Ile	Ser	Glu	Met	Glu	Met	Met	Lys	Met	Ile
					470					475					480
Gly	Lys	His	Lys	Asn	Ile	Ile	Asn	Leu	Leu	Gly	Ala	Cys	Thr	Gln	Asp
				485				490						495	
Gly	Pro	Leu	Tyr	Val	Ile	Val	Glu	Tyr	Ala	Ser	Lys	Gly	Asn	Leu	Arg
			500					505					510		
Glu	Tyr	Leu	Gln	Ala	Arg	Arg	Pro	Pro	Gly	Leu	Glu	Tyr	Cys	Tyr	Asn
			515				520					525			
Pro	Ser	His	Asn	Pro	Glu	Glu	Gln	Leu	Ser	Ser	Lys	Asp	Leu	Val	Ser
							535					540			
Cys	Ala	Tyr	Gln	Val	Ala	Arg	Gly	Met	Glu	Tyr	Leu	Ala	Ser	Lys	Lys
					550					555					560
Cys	Ile	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val	Thr	Glu	Asp
				565					570					575	
Asn	Val	Met	Lys	Ile	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Asp	Ile	His	His
			580					585					590		
Ile	Asp	Tyr	Tyr	Lys	Lys	Thr	Thr	Asn	Gly	Arg	Leu	Pro	Val	Lys	Trp
			595					600					605		
Met	Ala	Pro	Glu	Ala	Leu	Phe	Asp	Arg	Ile	Tyr	Thr	His	Gln	Ser	Asp
						615						620			
Val	Trp	Ser	Phe	Gly	Val	Leu	Leu	Trp	Glu	Ile	Phe	Thr	Leu	Gly	Gly
					630					635					640
Ser	Pro	Tyr	Pro	Gly	Val	Pro	Val	Glu	Glu	Leu	Phe	Lys	Leu	Leu	Lys
				645					650					655	
Glu	Gly	His	Arg	Met	Asp	Lys	Pro	Ser	Asn	Cys	Thr	Asn	Glu	Leu	Tyr
			660					665					670		
Met	Met	Met	Arg	Asp	Cys	Trp	His	Ala	Val	Pro	Ser	Gln	Arg	Pro	Thr

740

675	680	685
Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Val Ala Leu Thr Ser		
690	695	700
Asn Gln Glu Tyr Leu Asp Leu Ser Met Pro Leu Asp Gln Tyr Ser Pro		
705	710	715
Ser Phe Pro Asp Xaa Arg Ser Ser Thr Cys Ser Ser Gly Glu Asp Ser		
725	730	735
Val Phe Ser His Glu Pro Leu Pro Glu Glu Pro Cys Leu Pro Arg His		
740	745	750
Pro Ala Gln Leu Ala Asn Gly Gly Leu Lys Arg Arg		
755	760	

<210> 715

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 715

Asp Pro Thr Gly Val Gln Gly Trp Arg Glu Asn Leu Cys Glu Glu Arg

741

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      1             5             10             15
Glu Gly Ala Ser Arg Glu Phe Lys Gly Arg Cys Glu Xaa Ile Met Asp
      20             25             30
Ala Met Lys Arg Gly Leu Cys Cys Val Leu Leu Leu Cys Gly Ala Val
      35             40             45
Phe Val Ser Pro Ser Gln Glu Ile His Ala Arg Phe Arg Arg Gly Ala
      50             55             60
Arg Ser Tyr Gln Val Ile Cys Arg Asp Glu Lys Thr Gln Met Ile Tyr
      65             70             75             80
Gln Gln His Gln Ser Trp Leu Arg Pro Val Leu Arg Ser Asn Arg Val
      85             90             95
Glu Tyr Cys Trp Cys Asn Ser Gly Arg Ala Gln Cys His Ser Val Pro
      100            105            110
Val Lys Ser Cys Ser Glu Pro Arg Cys Phe Asn Gly Gly Thr Cys Gln
      115            120            125
Gln Ala Cys Thr Ser Gln Ile Ser Cys Ala Xaa Ala Pro Lys Ile Ser
      130            135            140
Xaa Asn Xaa Val Xaa Asn Thr Arg Pro Cys Tyr Glu Thr Arg Ala Gln
      145            150            155            160

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<210> 716

<211> 221

<212> PRT

<213> Homo sapiens

<400> 716

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Arg Ser Gly Pro Arg Thr Pro Ala Cys Pro Gly Leu Ala Ser Cys Thr
  1             5             10             15
Cys Cys Pro Leu Thr Pro Gly Lys Met Ala Gly Pro Trp Thr Phe Thr
      20             25             30
Leu Leu Cys Gly Leu Leu Ala Ala Thr Leu Ile Gln Ala Thr Leu Ser
      35             40             45
Pro Thr Ala Val Leu Ile Leu Gly Pro Lys Val Ile Lys Glu Lys Leu
      50             55             60

```

742

Thr Gln Glu Leu Lys Asp His Asn Ala Thr Ser Ile Leu Gln Gln Leu
 65 70 75 80
 Pro Leu Leu Ser Ala Met Arg Glu Lys Pro Ala Gly Gly Ile Pro Val
 85 90 95
 Leu Gly Ser Leu Val Asn Thr Val Leu Lys His Ile Ile Trp Leu Lys
 100 105 110
 Val Ile Thr Ala Asn Ile Leu Gln Leu Gln Val Lys Pro Ser Ala Asn
 115 120 125
 Asp Gln Glu Leu Leu Val Lys Ile Pro Leu Asp Met Val Ala Gly Phe
 130 135 140
 Asn Thr Pro Leu Val Lys Thr Ile Val Glu Phe His Met Thr Thr Glu
 145 150 155 160
 Ala Gln Ala Thr Ile Arg Met Asp Thr Ser Ala Ser Gly Pro Thr Arg
 165 170 175
 Leu Val Leu Ser Asp Cys Ala Thr Ser His Gly Ser Leu Arg Ile Gln
 180 185 190
 Leu Leu His Lys Leu Ser Phe Leu Val Asn Ala Leu Ala Lys Gln Val
 195 200 205
 Met Asn Leu Leu Val Pro Ser Met Pro Arg Trp Pro Asn
 210 215 220

 <210> 717
 <211> 195
 <212> PRT
 <213> Homo sapiens

 <400> 717
 Thr His Pro Asn Gln Ser Gln Ile Gln Thr Pro Ser Ser Leu Ile Pro
 1 5 10 15
 Pro Gly Met Thr Leu Ile Ser Gln Met Phe Leu His Gly Glu Arg Asn
 20 25 30
 Asn Gly Gly Phe Asp Leu Ser Asp Ala Leu Pro Asp Asn Glu Asn Lys
 35 40 45
 Lys Pro Thr Ala Ile Pro Lys Lys Pro Ser Ala Gly Asp Asp Phe Asp
 50 55 60

743

Leu Gly Asp Ala Val Val Asp Gly Glu Asn Asp Asp Pro Arg Pro Pro
 65 70 75 80
 Asn Pro Pro Lys Pro Met Pro Asn Pro Asn Pro Asn His Pro Ser Ser
 85 90 95
 Ser Gly Ser Phe Ser Asp Ala Asp Leu Ala Asp Gly Val Ser Gly Gly
 100 105 110
 Glu Gly Lys Gly Gly Ser Asp Gly Gly Gly Ser His Arg Lys Glu Gly
 115 120 125
 Glu Glu Ala Asp Ala Pro Gly Val Ile Pro Gly Ile Val Gly Ala Val
 130 135 140
 Val Val Ala Val Ala Gly Ala Ile Ser Ser Phe Ile Ala Tyr Gln Lys
 145 150 155 160
 Lys Lys Leu Cys Phe Lys Glu Asn Ala Glu Gln Gly Glu Val Asp Met
 165 170 175
 Glu Ser His Arg Asn Ala Asn Ala Glu Pro Ala Val Gln Arg Thr Leu
 180 185 190
 Leu Glu Lys
 195

<210> 718
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 718
 Ser Asp Arg Pro Thr Met Ala Pro Gly Val Ala Arg Gly Pro Thr Pro
 1 5 10 15
 Tyr Trp Arg Leu Arg Leu Gly Gly Ala Ala Leu Leu Leu Leu Leu Ile
 20 25 30
 Pro Val Ala Ala Ala Gln Glu Pro Pro Gly Ala Ala Cys Ser Gln Asn
 35 40 45
 Thr Asn Lys Thr Cys Glu Glu Cys Leu Lys Asn Val Ser Cys Leu Trp
 50 55 60
 Cys Asn Thr Asn Lys Ala Cys Leu Asp Tyr Pro Val Thr Ser Val Leu
 65 70 75 80
 Pro Pro Ala Ser Leu Cys Lys Leu Ser Ser Ala Arg Trp Gly Val Cys

744

85								90				95			
Trp	Val	Asn	Phe	Glu	Ala	Leu	Ile	Ile	Thr	Met	Ser	Val	Val	Gly	Gly
100				105				110							
Thr	Leu	Leu	Leu	Gly	Ile	Ala	Ile	Cys	Cys	Cys	Cys	Cys	Cys	Arg	Arg
115				120				125							
Lys	Arg	Ser	Arg	Lys	Pro	Asp	Arg	Ser	Glu	Glu	Lys	Ala	Met	Arg	Glu
130				135				140							
Arg	Glu	Glu	Arg	Arg	Ile	Arg	Gln	Glu	Glu	Arg	Arg	Ala	Glu	Met	Lys
145				150				155				160			
Thr	Arg	His	Asp	Glu	Ile	Arg	Lys	Lys	Tyr	Gly	Leu	Phe	Lys	Glu	Glu
165				170				175							
Asn	Pro	Tyr	Ala	Arg	Phe	Glu	Asn	Asn							
180				185											

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<210> 719
<211> 567
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 719

Phe	Arg	Glu	Leu	Lys	Asn	Thr	Val	Ser	Tyr	Ser	Gly	Lys	Arg	Lys	Gly
1				5					10					15	
Pro	Asp	Ser	Leu	Ser	Asp	Gly	Pro	Ala	Cys	Lys	Arg	Pro	Ala	Leu	Leu
			20					25					30		
His	Ser	Gln	Phe	Leu	Thr	Pro	Pro	Gln	Thr	Pro	Thr	Pro	Gly	Glu	Ser
		35					40					45			
Met	Glu	Asp	Val	His	Leu	Asn	Glu	Xaa	Lys	Gln	Glu	Ser	Ser	Ala	Asp
	50					55					60				
Leu	Leu	Gln	Asn	Ile	Ile	Asn	Ile	Lys	Asn	Glu	Cys	Ser	Pro	Val	Ser

745

65		70		75		80
Leu Asn Thr Val Xaa Val Ser Trp Leu Asn Pro Val Val Val Pro Gln						
	85			90		95
Ser Ser Pro Ala Glu Gln Cys Gln Asp Phe His Gly Gly Gln Val Phe						
	100			105		110
Ser Pro Pro Gln Lys Cys Gln Pro Phe Gln Val Arg Gly Ser Gln Gln						
	115			120		125
Met Ile Asp Gln Ala Ser Leu Tyr Gln Tyr Ser Pro Gln Asn Gln His						
	130			135		140
Val Glu Gln Gln Pro His Tyr Thr His Lys Pro Thr Leu Glu Tyr Ser						
	145			150		155
Pro Phe Pro Ile Pro Pro Gln Ser Pro Ala Tyr Glu Pro Asn Leu Phe						
	165			170		175
Asp Gly Pro Glu Ser Gln Phe Cys Pro Asn Gln Ser Leu Val Ser Leu						
	180			185		190
Leu Gly Asp Gln Arg Glu Ser Glu Asn Ile Ala Asn Pro Met Gln Thr						
	195			200		205
Ser Ser Ser Val Gln Gln Gln Asn Asp Ala His Leu His Ser Phe Ser						
	210			215		220
Met Met Pro Ser Ser Ala Cys Glu Ala Met Val Gly His Glu Met Ala						
	225			230		235
Ser Asp Ser Ser Asn Thr Ser Leu Pro Phe Ser Asn Met Gly Asn Pro						
	245			250		255
Met Asn Thr Thr Gln Leu Gly Lys Ser Leu Phe Gln Trp Gln Val Glu						
	260			265		270
Gln Glu Glu Ser Lys Leu Ala Asn Ile Ser Gln Asp Gln Phe Leu Ser						
	275			280		285
Lys Asp Ala Asp Gly Asp Thr Phe Leu His Ile Ala Val Ala Gln Gly						
	290			295		300
Arg Arg Ala Leu Ser Tyr Val Leu Ala Arg Lys Met Asn Ala Leu His						
	305			310		315
Met Leu Asp Ile Lys Glu His Asn Gly Gln Ser Ala Phe Gln Val Ala						
	325			330		335
Val Ala Ala Asn Gln His Leu Ile Val Gln Asp Leu Val Asn Ile Gly						

746

340	345	350
Ala Gln Val Asn Thr Thr Asp Cys Trp Gly Arg Thr Pro Leu His Val		
355	360	365
Cys Ala Glu Lys Gly His Ser Gln Val Leu Gln Ala Ile Gln Lys Gly		
370	375	380
Ala Val Gly Ser Asn Gln Phe Val Asp Leu Glu Ala Thr Asn Tyr Asp		
385	390	395
Gly Leu Thr Pro Leu His Cys Ala Val Ile Ala His Asn Ala Val Val		
405	410	415
His Glu Leu Gln Arg Asn Gln Gln Pro His Ser Pro Glu Val Gln Glu		
420	425	430
Leu Leu Leu Lys Asn Lys Ser Leu Val Asp Thr Ile Lys Cys Leu Ile		
435	440	445
Gln Met Gly Ala Ala Val Glu Ala Lys Asp Arg Lys Ser Gly Arg Thr		
450	455	460
Ala Leu His Leu Ala Ala Glu Glu Ala Asn Leu Glu Leu Ile Arg Leu		
465	470	475
Phe Leu Glu Leu Pro Ser Cys Leu Ser Phe Val Asn Ala Lys Ala Tyr		
485	490	495
Asn Gly Asn Thr Ala Leu His Val Ala Ala Ser Leu Gln Tyr Arg Leu		
500	505	510
Thr Gln Leu Asp Ala Val Arg Leu Leu Met Arg Lys Gly Ala Asp Pro		
515	520	525
Ser Thr Arg Asn Leu Glu Asn Glu Gln Pro Val His Leu Val Pro Asp		
530	535	540
Gly Pro Val Gly Glu Gln Ile Arg Arg Ile Leu Lys Gly Lys Ser Ile		
545	550	555
Gln Gln Arg Ala Pro Pro Tyr		
565		

<210> 720

<211> 299

<212> PRT

<213> Homo sapiens

747

<400> 720

```

Asp Pro Arg Val Arg Ser His Ser Arg Pro Thr Pro Leu Met Ala Asn
 1           5           10           15

Arg Tyr Thr Met Asp Leu Thr Ala Ile Tyr Glu Ser Leu Leu Ser Leu
      20           25           30

Ser Pro Asp Val Pro Val Pro Ser Asp His Gly Gly Thr Glu Ser Ser
      35           40           45

Pro Gly Trp Gly Ser Ser Gly Pro Trp Ser Leu Ser Pro Ser Asp Ser
      50           55           60

Ser Pro Ser Gly Val Thr Ser Arg Leu Pro Gly Arg Ser Thr Ser Leu
      65           70           75           80

Val Glu Gly Arg Ser Cys Gly Trp Val Pro Pro Pro Pro Gly Phe Ala
      85           90           95

Pro Leu Ala Pro Arg Leu Gly Pro Glu Leu Ser Pro Ser Pro Thr Ser
      100           105           110

Pro Thr Ala Thr Ser Thr Thr Pro Ser Arg Tyr Lys Thr Glu Leu Cys
      115           120           125

Arg Thr Phe Ser Glu Ser Gly Arg Cys Arg Tyr Gly Ala Lys Cys Gln
      130           135           140

Phe Ala His Gly Leu Gly Glu Leu Arg Gln Ala Asn Arg His Pro Lys
      145           150           155           160

Tyr Lys Thr Glu Leu Cys His Lys Phe Tyr Leu Gln Gly Arg Cys Pro
      165           170           175

Thr Ala Leu Ala Ala Thr Ser Ser Thr Thr Leu Ala Lys Thr Trp Arg
      180           185           190

Pro Arg Ala Thr Leu Leu Cys Phe Ala Arg Ala Ser Ala Ser Pro Ala
      195           200           205

Cys Pro Leu Ala Ala Gly Pro His His His His Gln Ala Trp Pro Ala
      210           215           220

Leu Pro Cys Pro Pro Ala Pro Ser Arg Pro Pro Ala Pro His His His
      225           230           235           240

Leu Gly Thr Phe His Cys His Pro Leu Pro Ser Leu Leu Pro Leu Ala
      245           250           255

Pro Pro Trp Leu Glu Glu Thr Pro Pro Gln Ser Val Ala Pro Pro Ala
      260           265           270

```

Glu Gly His Ser Tyr Gln Arg Leu Gly Ala Leu Gly Trp Pro Gly Ser
 275 280 285

Asp Pro Leu Cys Thr Val Pro Gly Ile Arg Pro
 290 295

<210> 721

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 721

Arg Ser Gln Leu Leu Ala Leu Ala Cys Leu Pro Ala Pro Leu Leu Ala
 1 5 10 15

Arg Ala Phe Ala Arg Pro Leu Leu Glu Asp Arg Gly Asp Ser Asp His
 20 25 30

Ser Leu Trp Leu Gly Arg Glu Thr Glu Ala Ala Ala Ala Gln Gly Lys
 35 40 45

Arg Gly Cys Ser Gly Gly Ser Arg Lys Met Ser Gly Glu Asp Glu Gln
 50 55 60

Gln Glu Gln Thr Ile Ala Glu Asp Leu Val Val Thr Lys Tyr Lys Met
 65 70 75 80

Gly Gly Asp Ile Ala Asn Arg Val Leu Arg Ser Leu Val Glu Ala Ser
 85 90 95

Ser Ser Gly Val Ser Val Leu Ser Leu Cys Glu Lys Gly Asp Ala Met
 100 105 110

Ile Met Glu Glu Thr Gly Lys Ile Phe Lys Lys Glu Lys Glu Met Lys
 115 120 125

Lys Gly Ile Ala Phe Pro Thr Ser Ile Ser Val Asn Asn Cys Val Cys
 130 135 140

His Phe Ser Pro Leu Lys Ser Asp Gln Asp Tyr Ile Leu Lys Glu Gly
 145 150 155 160

Asp Leu Val Lys Ile Asp Leu Gly Val His Val Asp Gly Phe Ile Ala

749

	165		170		175
Asn Val Ala His Thr Phe Val Val Asp Val Ala Gln Gly Thr Gln Val					
	180		185		190
Thr Gly Arg Lys Ala Asp Val Ile Lys Ala Ala His Leu Cys Ala Glu					
	195		200		205
Ala Ala Leu Arg Leu Val Lys Pro Gly Asn Gln Asn Thr Gln Val Thr					
	210		215		220
Glu Ala Trp Asn Lys Val Ala His Ser Phe Asn Cys Thr Pro Ile Glu					
	225		230		235
Gly Met Leu Ser His Gln Leu Lys Gln His Val Ile Asp Gly Glu Lys					
		245		250	255
Thr Ile Ile Gln Asn Pro Thr Asp Gln Gln Lys Lys Asp His Glu Lys					
		260		265	270
Ala Glu Phe Glu Val His Glu Val Tyr Ala Val Asp Val Leu Val Ser					
		275		280	285
Ser Gly Glu Gly Lys Val Arg Arg Val Pro Xaa Leu Ala Lys Arg Gly					
	290		295		300
Asp					
305					

<210> 722

<211> 394

<212> PRT

<213> Homo sapiens

<400> 722

Ala His Ala Ser Ala Ala Thr Thr Ser Ala Ala Asp Arg Gly Glu Met					
1		5		10	15
Ala Ala Thr Glu Gly Val Gly Glu Ala Ala Gln Gly Gly Glu Pro Gly					
	20		25		30
Gln Pro Ala Gln Pro Pro Pro Gln Pro His Pro Pro Pro Pro Gln Gln					
	35		40		45
Gln His Lys Glu Glu Met Ala Ala Glu Ala Gly Glu Ala Val Ala Ser					
	50		55		60
Pro Met Asp Asp Gly Phe Val Ser Leu Asp Ser Pro Ser Tyr Val Leu					
	65		70		75
					80

Tyr	Arg	Asp	Arg	Ala	Glu	Trp	Ala	Asp	Ile	Asp	Pro	Val	Pro	Gln	Asn			
				85							90						95	
Asp	Gly	Pro	Asn	Pro	Val	Val	Gln	Ile	Ile	Tyr	Ser	Asp	Lys	Phe	Arg			
				100							105			110				
Asp	Val	Tyr	Asp	Tyr	Phe	Arg	Ala	Val	Leu	Gln	Arg	Asp	Glu	Arg	Ser			
				115							120			125				
Glu	Arg	Ala	Phe	Lys	Leu	Thr	Arg	Asp	Ala	Ile	Glu	Leu	Asn	Ala	Ala			
				130							135			140				
Asn	Tyr	Thr	Val	Trp	His	Phe	Arg	Arg	Val	Leu	Leu	Lys	Ser	Leu	Gln			
145				150							155			160				
Lys	Asp	Leu	His	Glu	Glu	Met	Asn	Tyr	Ile	Thr	Ala	Ile	Ile	Glu	Glu			
				165							170			175				
Gln	Pro	Lys	Asn	Tyr	Gln	Val	Trp	His	His	Arg	Arg	Val	Leu	Val	Glu			
				180							185			190				
Trp	Leu	Arg	Asp	Pro	Ser	Gln	Glu	Leu	Glu	Phe	Ile	Ala	Asp	Ile	Leu			
				195							200			205				
Asn	Gln	Asp	Ala	Lys	Asn	Tyr	His	Ala	Trp	Gln	His	Arg	Gln	Trp	Val			
				210							215			220				
Ile	Gln	Glu	Phe	Lys	Leu	Trp	Asp	Asn	Glu	Leu	Gln	Tyr	Val	Asp	Gln			
225				230							235			240				
Leu	Leu	Lys	Glu	Asp	Val	Arg	Asn	Asn	Ser	Val	Trp	Asn	Gln	Arg	Tyr			
				245							250			255				
Phe	Val	Ile	Ser	Asn	Thr	Thr	Gly	Tyr	Asn	Asp	Arg	Ala	Val	Leu	Glu			
				260							265			270				
Arg	Glu	Val	Gln	Tyr	Thr	Leu	Glu	Met	Ile	Lys	Leu	Val	Pro	His	Asn			
				275							280			285				
Glu	Ser	Ala	Trp	Asn	Tyr	Leu	Lys	Gly	Ile	Leu	Gln	Asp	Arg	Gly	Leu			
				290							295			300				
Ser	Lys	Tyr	Pro	Asn	Leu	Leu	Asn	Gln	Leu	Leu	Asp	Leu	Gln	Pro	Ser			
305				310							315			320				
His	Ser	Ser	Pro	Tyr	Leu	Ile	Ala	Phe	Leu	Val	Asp	Ile	Tyr	Glu	Asp			
				325							330			335				
Met	Leu	Glu	Asn	Gln	Cys	Asp	Asn	Lys	Glu	Asp	Ile	Leu	Asn	Lys	Ala			
				340							345			350				

751

Leu Glu Leu Cys Glu Ile Leu Ala Lys Glu Lys Asp Thr Ile Arg Lys
 355 360 365

Glu Tyr Trp Arg Tyr Ile Gly Arg Ser Leu Gln Ser Lys His Ser Thr
 370 375 380

Glu Asn Asp Ser Pro Thr Asn Val Gln Gln
 385 390

<210> 723

<211> 337

<212> PRT

<213> Homo sapiens

<400> 723

Lys Thr Pro Lys Lys Ser Arg Val Arg Phe Ser Asn Ile Met Glu Ile
 1 5 10 15

Arg Gln Leu Pro Ser Ser His Ala Leu Glu Ala Lys Leu Ser Arg Met
 20 25 30

Ser Tyr Pro Val Lys Glu Gln Glu Ser Ile Leu Lys Thr Val Gly Lys
 35 40 45

Leu Thr Ala Thr Gln Val Ala Lys Ile Ser Phe Phe Phe Cys Phe Val
 50 55 60

Trp Phe Leu Ala Asn Leu Ser Tyr Gln Glu Ala Leu Ser Asp Thr Gln
 65 70 75 80

Val Ala Ile Val Asn Ile Leu Ser Ser Thr Ser Gly Leu Phe Thr Leu
 85 90 95

Ile Leu Ala Ala Val Phe Pro Ser Asn Ser Gly Asp Arg Phe Thr Leu
 100 105 110

Ser Lys Leu Leu Ala Val Ile Leu Ser Ile Gly Gly Val Val Leu Val
 115 120 125

Asn Leu Ala Gly Ser Glu Lys Pro Ala Gly Arg Asp Thr Val Gly Ser
 130 135 140

Ile Trp Ser Leu Ala Gly Ala Met Leu Tyr Ala Val Tyr Ile Val Met
 145 150 155 160

Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met Phe
 165 170 175

752

Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Trp Pro Gly Phe
 180 185 190
 Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn Lys
 195 200 205
 Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val Leu
 210 215 220
 Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu Ile
 225 230 235 240
 Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala Asp
 245 250 255
 Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly Ala
 260 265 270
 Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His Tyr
 275 280 285
 Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala Phe
 290 295 300
 Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu Gln
 305 310 315 320
 Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly Ala
 325 330 335

Ser

<210> 724

<211> 665

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 724

753

Ala	Pro	Leu	Asp	Gly	Gly	Ala	Ala	Ala	Ala	Ser	Val	Ala	Ser	Ser	Ile	1	5	10	15
Arg	Gln	Glu	Ala	Ser	Ala	Met	Gln	Ala	Pro	Arg	Glu	Leu	Ala	Val	Gly	20	25	30	
Ile	Asp	Leu	Gly	Thr	Thr	Tyr	Ser	Cys	Val	Gly	Val	Phe	Gln	Gln	Gly	35	40	45	
Arg	Val	Glu	Ile	Leu	Ala	Asn	Asp	Gln	Gly	Asn	Arg	Thr	Thr	Pro	Ser	50	55	60	
Tyr	Val	Ala	Phe	Thr	Asp	Thr	Glu	Arg	Leu	Val	Gly	Asp	Ala	Ala	Lys	65	70	75	80
Ser	Gln	Ala	Ala	Leu	Asn	Pro	His	Asn	Thr	Val	Phe	Asp	Ala	Lys	Arg	85	90	95	
Leu	Ile	Gly	Arg	Lys	Phe	Ala	Asp	Thr	Thr	Val	Gln	Ser	Asp	Met	Lys	100	105	110	
His	Trp	Pro	Phe	Arg	Val	Val	Ser	Glu	Gly	Gly	Lys	Pro	Lys	Val	Arg	115	120	125	
Val	Cys	Tyr	Arg	Gly	Glu	Asp	Lys	Thr	Phe	Tyr	Pro	Glu	Glu	Ile	Ser	130	135	140	
Ser	Met	Val	Leu	Ser	Lys	Met	Lys	Glu	Thr	Ala	Glu	Ala	Tyr	Leu	Gly	145	150	155	160
Gln	Pro	Val	Lys	His	Ala	Val	Ile	Thr	Val	Pro	Ala	Tyr	Phe	Asn	Asp	165	170	175	
Ser	Gln	Arg	Gln	Ala	Thr	Lys	Asp	Ala	Gly	Ala	Ile	Ala	Gly	Leu	Asn	180	185	190	
Val	Leu	Arg	Ile	Ile	Asn	Glu	Pro	Thr	Ala	Ala	Ala	Ile	Ala	Tyr	Gly	195	200	205	
Leu	Asp	Arg	Arg	Gly	Ala	Gly	Xaa	Arg	Asn	Val	Leu	Ile	Phe	Asp	Leu	210	215	220	
Gly	Gly	Gly	Thr	Phe	Asp	Val	Ser	Val	Leu	Ser	Ile	Asp	Ala	Gly	Val	225	230	235	240
Phe	Glu	Val	Lys	Ala	Thr	Ala	Gly	Asp	Thr	His	Leu	Gly	Gly	Glu	Asp	245	250	255	
Phe	Asp	Asn	Arg	Leu	Val	Asn	His	Phe	Met	Glu	Glu	Phe	Arg	Arg	Lys	260	265	270	

754

His Gly Lys Asp Leu Ser Gly Asn Lys Arg Ala Leu Arg Arg Leu Arg
 275 280 285

Thr Ala Cys Glu Arg Ala Lys Arg Thr Xaa Ser Ser Ser Thr Gln Ala
 290 295 300

Thr Leu Glu Ile Asp Ser Leu Phe Glu Gly Val Asp Phe Tyr Thr Ser
 305 310 315 320

Ile Thr Arg Ala Arg Phe Glu Glu Leu Cys Ser Asp Leu Phe Arg Ser
 325 330 335

Thr Leu Glu Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys
 340 345 350

Ala Gln Ile His Asp Val Val Leu Val Gly Gly Ser Thr Arg Ile Pro
 355 360 365

Lys Val Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Lys Glu Leu Asn
 370 375 380

Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val Gln
 385 390 395 400

Ala Ala Val Leu Met Gly Asp Lys Cys Glu Lys Val Gln Asp Leu Leu
 405 410 415

Leu Leu Asp Val Ala Pro Leu Ser Leu Gly Leu Glu Thr Ala Gly Gly
 420 425 430

Val Met Thr Thr Leu Ile Gln Arg Asn Ala Thr Ile Pro Thr Lys Gln
 435 440 445

Thr Gln Thr Phe Thr Thr Tyr Ser Asp Asn Gln Pro Gly Val Phe Ile
 450 455 460

Gln Val Tyr Glu Gly Glu Arg Ala Met Thr Lys Asp Asn Asn Leu Leu
 465 470 475 480

Gly Arg Phe Glu Leu Ser Gly Ile Pro Pro Ala Pro Arg Gly Val Pro
 485 490 495

Gln Ile Glu Val Thr Phe Asp Ile Asp Ala Asn Gly Ile Leu Ser Val
 500 505 510

Thr Ala Thr Asp Arg Ser Thr Gly Lys Ala Asn Lys Ile Thr Ile Thr
 515 520 525

Asn Asp Lys Gly Arg Leu Ser Lys Glu Glu Val Glu Arg Met Val His
 530 535 540

755

Glu Ala Glu Gln Tyr Lys Ala Glu Asp Glu Ala Gln Arg Asp Arg Val
 545 550 555 560
 Ala Ala Lys Asn Ser Leu Glu Ala His Val Phe His Val Lys Gly Ser
 565 570 575
 Leu Gln Glu Glu Ser Leu Arg Asp Lys Ile Pro Glu Glu Asp Arg Arg
 580 585 590
 Lys Met Gln Asp Lys Cys Arg Glu Val Leu Ala Trp Leu Glu His Asn
 595 600 605
 Gln Leu Ala Glu Lys Glu Glu Tyr Glu His Gln Lys Arg Glu Leu Glu
 610 615 620
 Gln Ile Cys Arg Pro Ile Phe Ser Arg Leu Tyr Gly Gly Pro Gly Val
 625 630 635 640
 Pro Gly Gly Ser Ser Cys Gly Thr Gln Ala Arg Gln Gly Asp Pro Ser
 645 650 655
 Thr Gly Pro Ile Ile Glu Glu Val Asp
 660 665

<210> 725

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 725

Ala Arg Phe Ile Lys Leu Ile Phe Phe Ile Leu Val Val Lys Ser Ser
 1 5 10 15
 Leu Ile Ala Phe Cys Gln Leu Asp Phe Xaa Val Cys Val Ile Phe Lys
 20 25 30
 Gly Arg Met Thr Gly Gln Ile Ser Asn Lys Lys Cys Ile Glu Leu Glu
 35 40 45
 Asn Ile Val Val Pro Ser Tyr Pro Trp Asp Ile Arg Ser Lys Thr Pro
 50 55 60
 Ser Glu Arg Leu Lys Pro Trp Ile Val
 65 70

756

<210> 726

<211> 122

<212> PRT

<213> Homo sapiens

<400> 726

Thr Ala Ser Trp Ser Pro Ala Pro Val Pro Ser Ser Leu Glu Arg Leu
 1 5 10 15

Phe Ser Pro Asp Gly Thr Phe Pro Ser Arg Arg Phe Leu Gly Leu Trp
 20 25 30

Leu Phe Phe Ser Cys Ala Arg Leu Ile Gly His Leu Leu Ala Ser Ile
 35 40 45

Ser Val Val Leu Leu Pro His Phe Leu Phe Cys Cys Phe Ser Val Leu
 50 55 60

Ser Lys Tyr Leu Leu Cys Ser Trp Leu Pro Phe Arg Arg Gln Val Phe
 65 70 75 80

Ser Phe Pro Leu Ala Leu Leu Leu Ile Trp Leu Leu Pro Thr Lys Ala
 85 90 95

Cys Ser Val Arg Ile Ser Trp Phe Ser Thr Cys Gln Asn Leu Leu Gln
 100 105 110

Pro Gln Phe Leu Gly Leu Asn Leu Tyr Val
 115 120

<210> 727

<211> 150

<212> PRT

<213> Homo sapiens

<400> 727

Gly Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg
 1 5 10 15

Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly
 20 25 30

His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
 35 40 45

Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys

757

50 55 60
 Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys
 65 70 75 80
 Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp
 85 90 95
 Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
 100 105 110
 Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg
 115 120 125
 Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg
 130 135 140
 Leu Leu Lys Val Ala Ile
 145 150

<210> 728

<211> 192

<212> PRT

<213> Homo sapiens

<400> 728

Arg Ala Gly His Pro Leu His Pro Arg Glu Ala Pro Pro Ala Ala Arg
 1 5 10 15
 Ser His Thr Pro Lys Pro Leu Leu Met Val His Gly Trp Pro Gly Ser
 20 25 30
 Phe Tyr Glu Phe Tyr Lys Ile Ile Pro Leu Leu Thr Asp Pro Lys Asn
 35 40 45
 His Gly Leu Ser Asp Glu His Val Phe Glu Val Ile Cys Pro Ser Ile
 50 55 60
 Pro Gly Tyr Gly Phe Ser Glu Ala Ser Ser Lys Lys Gly Phe Asn Ser
 65 70 75 80
 Val Ala Thr Ala Arg Ile Phe Tyr Lys Leu Met Leu Arg Leu Gly Phe
 85 90 95
 Gln Glu Phe Tyr Ile Gln Gly Gly Asp Trp Gly Ser Leu Ile Cys Thr
 100 105 110
 Asn Met Ala Gln Leu Val Pro Ser His Val Lys Gly Leu His Leu Asn
 115 120 125

758

Met Ala Leu Val Leu Ser Asn Phe Ser Thr Leu Thr Leu Leu Gly
 130 135 140

Gln Arg Phe Gly Arg Phe Leu Gly Leu Thr Glu Arg Asp Val Glu Leu
 145 150 155 160

Leu Tyr Pro Val Lys Glu Lys Val Phe Tyr Ser Leu Met Arg Glu Ser
 165 170 175

Gly Tyr Met His Ile Gln Cys Thr Lys Pro Asp Thr Val Ala Leu Leu
 180 185 190

<210> 729
 <211> 466
 <212> PRT
 <213> Homo sapiens

<400> 729
 Glu His Gln Glu Ile Met Asn Asn Phe Gly Asn Glu Glu Phe Asp Cys
 1 5 10 15

His Phe Leu Asp Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys
 20 25 30

Ile Asn Glu Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala
 35 40 45

Asp Leu Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu
 50 55 60

Pro Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
 65 70 75 80

Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala Ser
 85 90 95

Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro Glu Arg
 100 105 110

Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile Lys Tyr Ala
 115 120 125

Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser Glu Val Glu Leu
 130 135 140

759

Met	Lys	Val	Ala	Arg	Ala	His	Pro	Lys	Ala	Lys	Leu	Val	Leu	Arg	Ile	145	150	155	160
Ala	Thr	Asp	Asp	Ser	Lys	Ala	Val	Cys	Arg	Leu	Ser	Val	Lys	Phe	Gly	165	170	175	
Ala	Thr	Leu	Arg	Thr	Ser	Arg	Leu	Leu	Leu	Glu	Arg	Ala	Lys	Glu	Leu	180	185	190	
Asn	Ile	Asp	Val	Val	Gly	Val	Ser	Phe	His	Val	Gly	Ser	Gly	Cys	Thr	195	200	205	
Asp	Pro	Glu	Thr	Phe	Val	Gln	Ala	Ile	Ser	Asp	Ala	Arg	Cys	Val	Phe	210	215	220	
Asp	Met	Gly	Ala	Glu	Val	Gly	Phe	Ser	Met	Tyr	Leu	Leu	Asp	Ile	Gly	225	230	235	240
Gly	Gly	Phe	Pro	Gly	Ser	Glu	Asp	Val	Lys	Leu	Lys	Phe	Glu	Glu	Ile	245	250	255	
Thr	Gly	Val	Ile	Asn	Pro	Ala	Leu	Asp	Lys	Tyr	Phe	Pro	Ser	Asp	Ser	260	265	270	
Gly	Val	Arg	Ile	Ile	Ala	Glu	Pro	Gly	Arg	Tyr	Tyr	Val	Ala	Ser	Ala	275	280	285	
Phe	Thr	Leu	Ala	Val	Asn	Ile	Ile	Ala	Lys	Lys	Ile	Val	Leu	Lys	Glu	290	295	300	
Gln	Thr	Gly	Ser	Asp	Asp	Glu	Asp	Glu	Ser	Ser	Glu	Gln	Thr	Phe	Met	305	310	315	320
Tyr	Tyr	Val	Asn	Asp	Gly	Val	Tyr	Gly	Ser	Phe	Asn	Cys	Ile	Leu	Tyr	325	330	335	
Asp	His	Ala	His	Val	Lys	Pro	Leu	Leu	Gln	Lys	Arg	Pro	Lys	Pro	Asp	340	345	350	
Glu	Lys	Tyr	Tyr	Ser	Ser	Ser	Ile	Trp	Gly	Pro	Thr	Cys	Asp	Gly	Leu	355	360	365	
Asp	Arg	Ile	Val	Glu	Arg	Cys	Asp	Leu	Pro	Glu	Met	His	Val	Gly	Asp	370	375	380	
Trp	Met	Leu	Phe	Glu	Asn	Met	Gly	Ala	Tyr	Thr	Val	Ala	Ala	Ala	Ser	385	390	395	400
Thr	Phe	Asn	Gly	Phe	Gln	Arg	Pro	Thr	Ile	Tyr	Tyr	Val	Met	Ser	Gly	405	410	415	

760

Pro Ala Trp Gln Leu Met Gln Gln Phe Gln Asn Pro Asp Phe Pro Pro
 420 425 430

Glu Val Glu Glu Gln Asp Ala Ser Thr Leu Pro Val Ser Cys Ala Trp
 435 440 445

Glu Ser Gly Met Lys Arg His Arg Ala Ala Cys Ala Ser Ala Ser Ile
 450 455 460

Asn Val
 465

<210> 730
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 730
 Trp Cys Leu Lys Val His Cys Asn Trp Gly Ala Leu Glu Thr Ala Cys
 1 5 10 15

Ser His Thr Thr Asp Gly Ser Leu Asp Thr Ser Ser Leu Gln Ala Arg
 20 25 30

Gln Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe
 35 40 45

Arg Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln
 50 55 60

Gln Phe
 65

<210> 731
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 731
 Val Val Ala Met Ala Gln Val Leu Arg Gly Thr Val Thr Asp Phe Pro
 1 5 10 15

Gly Phe Asp Glu Arg Ala Asp Ala Glu Thr Leu Arg Lys Ala Met Lys
 20 25 30

Gly Leu Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu Leu Thr Ser Arg
 35 40 45

761

Ser Asn Ala Gln Arg Gln Glu Ile Ser Ala Ala Phe Lys Thr Leu Phe
 50 55 60
 Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Glu Leu Thr Gly Lys Phe
 65 70 75 80
 Glu Lys Leu Ile Val Ala Leu Met Lys Pro Ser Arg Leu Tyr Asp Ala
 85 90 95
 Tyr Glu Leu Lys His Ala Leu Lys Gly Ala Gly Thr Asn Glu Lys Val
 100 105 110
 Leu Thr Glu Ile Ile Ala Ser Arg Thr Pro Glu Glu Leu Arg Ala Ile
 115 120 125
 Lys Gln Val Tyr Glu Glu Glu Tyr Gly Ser Ser Leu Glu Asp Asp Val
 130 135 140
 Val Gly Asp Thr Ser Gly Tyr Tyr Gln Arg Met Leu Val Val Leu Leu
 145 150 155 160
 Gln Ala Asn Arg Asp Pro Asp Ala Gly Ile Asp Glu Ala Gln Val Glu
 165 170 175
 Gln Asp Ala Gln Ala Leu Phe Gln Ala Gly Glu Leu Lys Trp Gly Thr
 180 185 190
 Asp Glu Glu Lys Phe Ile Thr Ile Phe Gly Thr Arg Ser Val Leu Ile
 195 200 205

<210> 732

<211> 421

<212> PRT

<213> Homo sapiens

<400> 732

Val Gly Asp Cys Cys Val Pro Tyr Leu Asp Pro Glu Gly Thr Ser Leu
 1 5 10 15
 Leu Gly Trp Leu Ser Val Ser Leu Leu Ser Ser Gly Glu Ile Thr Ala
 20 25 30
 Ser Ser Ala Pro Arg Met Glu Pro Pro Gly Arg Arg Glu Cys Pro Phe
 35 40 45

762

Pro Ser Trp Arg Phe Pro Gly Leu Leu Leu Ala Ala Met Val Leu Leu
 50 55 60

Leu Tyr Ser Phe Ser Asp Ala Cys Glu Glu Pro Pro Thr Phe Glu Ala
 65 70 75 80

Met Glu Leu Ile Gly Lys Pro Lys Pro Tyr Tyr Glu Ile Gly Glu Arg
 85 90 95

Val Asp Tyr Lys Cys Lys Lys Gly Tyr Phe Tyr Ile Pro Pro Leu Ala
 100 105 110

Thr His Thr Ile Cys Asp Arg Asn His Thr Trp Leu Pro Val Ser Asp
 115 120 125

Asp Ala Cys Tyr Arg Glu Thr Cys Pro Tyr Ile Arg Asp Pro Leu Asn
 130 135 140

Gly Gln Ala Val Pro Ala Asn Gly Thr Tyr Glu Phe Gly Tyr Gln Met
 145 150 155 160

His Phe Ile Cys Asn Glu Gly Tyr Tyr Leu Ile Gly Glu Glu Ile Leu
 165 170 175

Tyr Cys Glu Leu Lys Gly Ser Val Ala Ile Trp Ser Gly Lys Pro Pro
 180 185 190

Ile Cys Glu Lys Val Leu Cys Thr Pro Pro Pro Lys Ile Lys Asn Gly
 195 200 205

Lys His Thr Phe Ser Glu Val Glu Val Phe Glu Tyr Leu Asp Ala Val
 210 215 220

Thr Tyr Ser Cys Asp Pro Ala Pro Gly Pro Asp Pro Phe Ser Leu Ile
 225 230 235 240

Gly Glu Ser Thr Ile Tyr Cys Gly Asp Asn Ser Val Trp Ser Arg Ala
 245 250 255

Ala Pro Glu Cys Lys Val Val Lys Cys Arg Phe Pro Val Val Glu Asn
 260 265 270

Gly Lys Gln Ile Ser Gly Phe Gly Lys Lys Phe Tyr Tyr Lys Ala Thr
 275 280 285

Val Met Phe Glu Cys Asp Lys Gly Phe Tyr Leu Asp Gly Ser Asp Thr
 290 295 300

Ile Val Cys Asp Ser Asn Ser Thr Trp Asp Pro Pro Val Pro Lys Cys
 305 310 315 320

763

Leu Lys Val Ser Thr Ser Ser Thr Thr Lys Ser Pro Ala Ser Ser Ala
325 330 335

Ser Gly Pro Arg Pro Thr Tyr Lys Pro Pro Val Ser Asn Tyr Pro Gly
340 345 350

Tyr Pro Lys Pro Glu Glu Gly Ile Leu Asp Ser Leu Asp Val Trp Val
355 360 365

Ile Ala Val Ile Val Ile Ala Ile Val Val Gly Val Ala Val Ile Cys
370 375 380

Val Val Pro Tyr Arg Tyr Leu Gln Arg Arg Lys Lys Lys Gly Lys Ala
385 390 395 400

Asp Gly Gly Ala Glu Tyr Ala Thr Tyr Gln Thr Lys Ser Thr Thr Pro
405 410 415

Ala Glu Gln Arg Gly
420

<210> 733

<211> 105

<212> PRT

<213> Homo sapiens

<400> 733

Asp Ser Met Cys Pro Ala Ser Thr Pro Ser Val Leu Ser Ser Glu Gln
1 5 10 15

Glu Phe Gln Met Phe Pro Lys Ser Arg Leu Ser Ser Val Ser Val Thr
20 25 30

Tyr Cys Ser Val Ser Gln Asp Phe Pro Gly Ser Asn Leu Asn Leu Leu
35 40 45

Thr Asn Asn Ser Gly Thr Glu Trp Glu Ala His Pro Asp Gln Leu Leu
50 55 60

Arg Gly Pro Arg Lys Gly Arg Ile Glu Asn Val Gln Glu Ser Gly Gln
65 70 75 80

Glu Ala Val Ala Leu Leu His Pro Lys Pro Arg Leu Leu Thr Arg Leu
85 90 95

Pro	Pro	Leu	Trp	Gln	Gln	Arg	His	Ser
			100					105

764

<210> 734

<211> 76

<212> PRT

<213> Homo sapiens

<400> 734

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Tyr Pro Ser Val Thr Ser Gly Thr Phe Arg Arg Lys Pro Asn Ser Ser
 1              5              10              15

Val Trp Cys Thr Arg Ser Ser Asp Val Phe Pro Pro Pro Asn Val Leu
              20              25              30

Val Lys Gln Thr Tyr Thr Ser Ser Glu Ala Thr Phe Gly Gln Ala Ser
              35              40              45

Arg Leu Gly Lys Cys Cys Thr Leu Cys Ile Lys Cys Ala Ser His Pro
              50              55              60

Ser Pro Leu Gly Lys Phe Leu Cys Ile Leu Gln Ala
              65              70              75

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<210> 735

<211> 72

<212> PRT

<213> Homo sapiens

<400> 735

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Asn Thr Ser Ile Asp Phe Ile Arg Val Phe Cys Gln Ser Arg Leu Phe
 1              5              10              15

Ser Asp Ser Ser Pro Pro Phe Leu Arg Thr Leu Asn Asn Ala Val Val
              20              25              30

Leu Ala Leu Ser Arg Lys Glu Lys Val Lys Pro Leu Phe Gly Gly Asn
              35              40              45

Ile Gly Leu Asn Ser Asp Cys Pro Phe Leu Ala Gly Pro Leu Thr Asn
              50              55              60

His Pro Ile Phe Phe Val Phe Leu
              65              70

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<210> 736

<211> 412

<212> PRT

<213> Homo sapiens

765

<400> 736

Pro Ala Ala Met Leu Arg Ala Ala Ala Arg Phe Gly Pro Arg Leu Gly
 1 5 10 15

Arg Arg Leu Leu Ser Ala Ala Ala Thr Gln Ala Val Pro Ala Pro Asn
 20 25 30

Gln Gln Pro Glu Val Phe Cys Asn Gln Ile Phe Ile Asn Asn Glu Trp
 35 40 45

His Asp Ala Val Ser Arg Lys Thr Phe Pro Thr Val Asn Pro Ser Thr
 50 55 60

Gly Glu Val Ile Cys Gln Val Ala Glu Gly Asp Lys Glu Asp Val Asp
 65 70 75 80

Lys Ala Val Lys Ala Ala Arg Ala Ala Phe Gln Leu Gly Ser Pro Trp
 85 90 95

Arg Arg Met Asp Ala Ser His Arg Gly Arg Leu Leu Asn Arg Leu Ala
 100 105 110

Asp Leu Ile Glu Arg Asp Arg Thr Tyr Leu Ala Ala Leu Glu Thr Leu
 115 120 125

Asp Asn Gly Lys Pro Tyr Val Ile Ser Tyr Leu Val Asp Leu Asp Met
 130 135 140

Val Leu Lys Cys Leu Arg Tyr Tyr Ala Gly Trp Ala Asp Lys Tyr His
 145 150 155 160

Gly Lys Thr Ile Pro Ile Asp Gly Asp Phe Phe Ser Tyr Thr Arg His
 165 170 175

Glu Pro Val Gly Val Cys Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu
 180 185 190

Leu Met Gln Ala Trp Lys Leu Gly Pro Ala Leu Ala Thr Gly Asn Val
 195 200 205

Val Val Met Lys Val Ala Glu Gln Thr Pro Leu Thr Ala Leu Tyr Val
 210 215 220

Ala Asn Leu Ile Lys Glu Ala Gly Phe Pro Pro Gly Val Val Asn Ile
 225 230 235 240

Val Pro Gly Phe Gly Pro Thr Ala Gly Ala Ala Ile Ala Ser His Glu
 245 250 255

Asp Val Asp Lys Val Ala Phe Thr Gly Ser Thr Glu Ile Gly Arg Val

766

260	265	270
Ile Gln Val Ala Ala Gly Ser Ser Asn Leu Lys Arg Val Thr Leu Glu		
275	280	285
Leu Gly Gly Lys Ser Pro Asn Ile Ile Met Ser Asp Ala Asp Met Asp		
290	295	300
Trp Ala Val Glu Gln Ala His Phe Ala Leu Phe Phe Asn Gln Gly Gln		
305	310	315
Cys Cys Cys Ala Gly Ser Arg Thr Phe Val Gln Glu Asp Ile Tyr Asp		
325	330	335
Glu Phe Val Glu Arg Ser Val Ala Arg Ala Lys Ser Arg Val Val Gly		
340	345	350
Asn Pro Phe Asp Ser Lys Thr Glu Gln Gly Pro Gln Trp Met Lys Leu		
355	360	365
Ser Leu Arg Arg Ser Ser Ala Thr Ser Thr Arg Gly Ser Lys Arg Gly		
370	375	380
Arg Ser Cys Cys Val Val Gly Ala Leu Leu Leu Thr Val Val Thr Ser		
385	390	395
Ser Ser Pro Leu Cys Leu Glu Met Cys Arg Met Ala		
405	410	

<210> 737

<211> 275

<212> PRT

<213> Homo sapiens

<400> 737

Val Gly Leu Ser Val Leu Arg Asn Leu Val Leu Ile Thr Val Phe Ala		
1	5	10
Val Leu Ser Trp Phe Leu Leu Val Leu Thr Val Cys Phe Leu Leu Lys		
20	25	30
Ala Cys Arg Ala Ser Leu Pro Cys Ser Val Gly Val Trp Gln Val Thr		
35	40	45
Asp Gly Glu Asp Ser Cys His Arg Ile Ser Asn Thr Ile Val Phe Leu		
50	55	60
His Val Leu Ser Trp Gly Cys Gly Gln Val Gly Val Gly Lys Glu Glu		
65	70	75
		80

767

Ala	Leu	Arg	Ser	Gly	Gly	Phe	Phe	Phe	Ser	Ser	Pro	Tyr	Pro	Val	Ser		
				85					90					95			
Leu	Pro	Val	Phe	Leu	Pro	Leu	Arg	Gln	Ala	Gln	Ser	Val	Phe	Pro	Gly		
				100					105					110			
Ala	Gln	Arg	Ser	Pro	Arg	Leu	Leu	Pro	Arg	Thr	Pro	Pro	Arg	Ala	Glu		
				115					120					125			
Pro	Ser	Ala	Glu	Val	Leu	Ala	Trp	Ser	Thr	Leu	Ile	Pro	Arg	Phe	Phe		
				130					135					140			
Ser	Lys	Thr	Arg	Pro	Val	Pro	Phe	Ser	Thr	Ala	Ala	Ser	Gln	Gln	Arg		
145					150					155					160		
Ala	Pro	Gly	Ser	Pro	Arg	Ser	Gln	Leu	Trp	Leu	Trp	Thr	Thr	Trp	Leu		
				165					170					175			
Arg	Pro	Leu	Gly	Leu	Gln	Ser	Leu	His	Trp	Val	Tyr	Leu	Gly	Leu	Ile		
				180					185					190			
His	Ser	Trp	Ser	Gln	Gly	Trp	Gly	Phe	Thr	Cys	Glu	His	Gln	Thr	Asp		
				195					200					205			
Leu	Leu	Ala	Ser	Arg	Ala	Val	Asp	Ser	Leu	Met	Lys	Ala	Leu	Val	Arg		
				210					215					220			
Arg	Lys	His	Ser	Val	Leu	Arg	Leu	Leu	Cys	Asn	Arg	Phe	Val	Ile	Met		
225					230					235					240		
Ser	His	Glu	Lys	Ser	Asn	Glu	Leu	Val	Leu	Leu	Ile	Val	Thr	Val	Met		
				245					250					255			
Arg	Ser	Leu	Thr	Tyr	Asn	Ile	Ala	Val	Val	Ala	Ala	Trp	Phe	Asn	Gly		
				260					265					270			
Cys	Ile	Arg															
				275													

768

Tyr Ile Tyr Ala Ile Gly Asp Ile Leu Glu Asp Lys Val Glu Leu Thr
 20 25 30
 Pro Val Ala Ile Gln Ala Gly Arg Leu Leu Ala Gln Arg Leu Tyr Ala
 35 40 45
 Gly Ser Thr Val Lys Cys Asp Tyr Glu Asn Val Pro Thr Thr Val Phe
 50 55 60
 Thr Pro Leu Glu Tyr Gly Ala Cys Gly Leu Ser Glu Glu Lys Ala Val
 65 70 75 80
 Glu Lys Phe Gly Glu Glu Asn Ile Glu Val Tyr His Ser Tyr Phe Trp
 85 90 95
 Pro Leu Glu Trp Thr Ile Pro Ser Arg Asp Asn Asn Lys Cys Tyr Ala
 100 105 110
 Lys Ile Ile Cys Asn Thr Lys Asp Asn Glu Arg Val Val Gly Phe His
 115 120 125
 Val Leu Gly Pro Asn Ala Gly Glu Val Thr Gln Gly Phe Ala Ala Ala
 130 135 140
 Leu Lys Cys Gly Leu Thr Lys Lys Gln Leu Asp Ser Thr Ile Gly Ile
 145 150 155 160
 His Pro Val Cys Ala Glu Val Phe Thr Thr Leu Ser Val Thr Lys Arg
 165 170 175
 Ser Gly Ala Ser Ile Leu Gln Ala Gly Cys
 180 185

<210> 739

<211> 158

<212> PRT

<213> Homo sapiens

<400> 739

Lys Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1 5 10 15
 Val Arg Thr Val Leu Cys Glu Leu Ile Asn Ala Leu Tyr Pro Glu Gly
 20 25 30
 Gln Ala Pro Val Lys Lys Ile Gln Ala Ser Thr Met Ala Phe Lys Gln
 35 40 45
 Met Glu Gln Ile Ser Gln Phe Leu Gln Ala Ala Glu Arg Tyr Gly Ile

769

50		55		60	
Asn Thr Thr Asp Ile Phe Gln Thr Val Asp Leu Trp Glu Gly Lys Asn					
65		70		75	80
Met Ala Cys Val Gln Arg Thr Leu Met Asn Leu Gly Gly Leu Ala Val					
	85		90		95
Ala Arg Asp Asp Gly Leu Phe Ser Gly Asp Pro Asn Trp Phe Pro Lys					
	100		105		110
Lys Ser Lys Glu Asn Pro Arg Asn Phe Ser Asp Asn Gln Leu Gln Glu					
	115		120		125
Gly Lys Asn Val Ile Gly Leu Gln Met Gly Thr Asn Arg Gly Ala Ser					
	130		135		140
Gln Ala Gly Met Thr Gly Tyr Gly Met Pro Arg Gln Ile Leu					
145		150		155	

<210> 740

<211> 47

<212> PRT

<213> Homo sapiens

<400> 740

Asp Gln Glu Gly Glu Asn Pro Thr Thr Trp Lys Asp Phe Cys Phe His				
1		5		10
				15
Cys Leu Tyr Asp Val Ser His Ser Tyr Thr Tyr Lys Ser Leu Thr Arg				
	20		25	30
Gly Pro Leu Asn Cys Leu Val Phe Cys Glu Lys Gln Ile Phe Thr				
	35		40	45

<210> 741

<211> 212

<212> PRT

<213> Homo sapiens

<400> 741

Ala Gly Asp Ala Arg Cys Pro Pro Thr Pro Ala Pro Trp Pro Tyr Pro				
1		5		10
				15
His Leu His Pro His Pro Arg Ile Ala Ile Phe Arg Gly Gly Leu Gly				
	20		25	30

770

Gly Gly Val Arg Cys Phe Arg Ala Thr Glu Leu Lys His Lys Asp Pro
 35 40 45
 Ser Pro Ala His Pro Ala Gln Pro Gln Leu Thr Ser Met Pro Arg Glu
 50 55 60
 Lys Leu Pro Pro Pro Leu Pro Pro Pro Pro Thr Gln Ala Lys Ala Arg
 65 70 75 80
 Ala Gly Leu Arg Val Ser Pro Ala Pro Ser Leu Thr Pro Leu Pro Pro
 85 90 95
 Lys Thr Arg Leu Ser Ser Gln Thr Ser Leu Arg Ser Leu Ala Asn Pro
 100 105 110
 Leu Ala Pro Lys Glu Lys Asp Pro Gly Pro Ser Pro Ile Thr Pro Lys
 115 120 125
 Arg Gly Ser Pro Ser Ser Gly Leu Glu Pro Leu Val Pro Pro Ser Val
 130 135 140
 Cys Pro Arg Gly Pro Leu Pro Arg Trp Pro Leu Gly Ile Lys Ala Trp
 145 150 155 160
 Ala Ala Leu Arg Glu Gly Gly Arg Gly Arg Gly Trp Ser Gly Cys Ala
 165 170 175
 Ile Gly Val Ser Gly Ser Phe Ser Ala Arg Val Gly Val Val Glu Trp
 180 185 190
 Gly Arg Glu Ala Ser Arg Ala Pro Glu Gly Ser Gly Arg Asp Glu Asn
 195 200 205
 Gln Leu Phe Thr
 210

<210> 742

<211> 55

<212> PRT

<213> Homo sapiens

<400> 742

His Phe Gly Arg Pro Arg Gln Val Asp His Leu Arg Ser Gly Asp Gln
 1 5 10 15
 Pro Gly Gln His Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Lys Leu
 20 25 30
 Ala Gly Asn Arg Leu Asn Leu Gly Gly Gly Gly Ser Ser Glu Pro Arg

771

35 40 45
 Ser Trp His Cys Thr Pro Thr
 50 55

 <210> 743
 <211> 188
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 743
 Pro Thr Arg Leu Arg Lys Arg Pro Ser Ser Gln Thr Asn Pro Ser Pro
 1 5 10 15

 Ser Ser Ser Arg Val Arg Asp Pro Val Gln Glu Arg Arg Ala Asn Ala
 20 25 30

 Thr Gly Ala His Leu Asp Lys Leu Asp Gln Gly Arg Leu Val Asp Leu
 35 40 45

 Val Asn Ala Ser Phe Gly Lys Lys Leu Arg Asp Asp Tyr Leu Ala Ser
 50 55 60

 Leu Arg Pro Arg Leu His Ser Ile Tyr Val Ser Glu Gly Tyr Asn Ala
 65 70 75 80

 Ala Ala Ile Leu Thr Met Glu Pro Val Leu Gly Gly Thr Pro Tyr Leu
 85 90 95

 Asp Lys Phe Val Val Ser Ser Xaa Arg Gln Gly Gln Gly Ser Gly Gln
 100 105 110

 Met Leu Trp Glu Cys Leu Arg Arg Asp Leu Gln Thr Leu Phe Trp Arg
 115 120 125

 Ser Arg Val Thr Asn Pro Ile Asn Pro Trp Tyr Phe Lys His Ser Asp
 130 135 140

 Gly Ser Phe Ser Asn Lys Gln Trp Ile Phe Phe Trp Phe Gly Leu Ala
 145 150 155 160

 Asp Ile Arg Asp Ser Tyr Glu Leu Val Asn His Ala Lys Gly Leu Pro
 165 170 175

772

Asp Ser Phe His Lys Pro Ala Ser Asp Pro Gly Ser
 180 185

<210> 744
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 744
 Met Phe Pro Ile Tyr Ser Arg Gly Ser Tyr Gly Gly Gly Asp Gly Gly
 1 5 10 15
 Tyr Asn Gly Phe Gly Gly Asp Gly Gly Asn Tyr Gly Gly Gly Pro Gly
 20 25 30
 Tyr Ser Ser Arg Gly Gly Tyr Gly Gly Gly Gly Pro Gly Tyr Gly Asn
 35 40 45
 Gln Gly Gly Gly Tyr Gly Gly Gly Gly Gly Tyr Asp Gly Tyr Asn Glu
 50 55 60
 Gly Gly Asn Phe Gly Gly Gly Asn Tyr Gly Gly Gly Gly Asn Tyr Asn
 65 70 75 80
 Asp Phe Gly Asn Tyr Ser Gly Gln Gln Gln Ser Asn Tyr Gly Pro Met
 85 90 95
 Lys Gly Gly Ser Phe Gly Gly Arg Ser Ser Gly Ser Pro Tyr Gly Gly
 100 105 110
 Gly Tyr Gly Ser Gly Gly Gly Ser Gly Gly Tyr Gly Ser Arg Arg Phe
 115 120 125

<210> 745
 <211> 241
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>

773

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 745

Glu	Ser	Arg	Glu	Gln	Ile	Leu	Pro	Val	Thr	Ser	Gly	Phe	Glu	Gly	Val
1				5					10					15	

Pro	Gly	Phe	Lys	Leu	Glu	Ser	Pro	Leu	Ser	Val	Pro	Lys	Arg	Xaa	Leu
			20					25					30		

Arg	Xaa	Ser	Phe	His	Pro	Xaa	Xaa	Lys	Thr	Ser	Phe	Trp	Met	Leu	Cys
		35					40					45			

Leu	Arg	Thr	Ser	Leu	Val	His	Lys	Met	Leu	His	Leu	Leu	Lys	Phe	Glu
	50					55					60				

Asp	Ala	Lys	Leu	Ala	Ala	Ala	Ile	Ser	Glu	Val	Val	Ser	Gln	Thr	Pro
65					70					75					80

Ala	Ser	Thr	Thr	Gln	Ala	Gly	Ala	Pro	Pro	Arg	Asp	Thr	Ser	Gln	Ser
				85					90					95	

Asp	Lys	Asp	Leu	Asp	Asp	Ala	Leu	Asp	Lys	Leu	Ser	Asp	Ser	Leu	Gly
		100					105						110		

Gln	Arg	Gln	Pro	Asp	Pro	Asp	Glu	Asn	Lys	Pro	Met	Glu	Asp	Lys	Val
		115					120					125			

Lys	Glu	Lys	Ala	Lys	Ala	Glu	His	Arg	Asp	Lys	Leu	Gly	Glu	Arg	Asp
	130					135					140				

Asp	Thr	Ile	Pro	Pro	Glu	Tyr	Arg	His	Leu	Leu	Asp	Asp	Asn	Gly	Gln
145					150					155					160

Asp	Lys	Pro	Val	Lys	Pro	Pro	Thr	Lys	Lys	Ser	Glu	Asp	Ser	Lys	Lys
			165						170					175	

Pro	Ala	Asp	Asp	Gln	Asp	Pro	Ile	Asp	Ala	Leu	Ser	Gly	Asp	Leu	Asp
			180					185						190	

774

Ser Cys Pro Ser Thr Thr Glu Thr Ser Gln Asn Thr Ala Lys Asp Lys
 195 200 205

Cys Lys Lys Ala Ala Ser Ser Ser Lys Ala Pro Lys Asn Gly Gly Lys
 210 215 220

Ala Lys Asp Ser Ala Lys Thr Thr Glu Glu Thr Ser Lys Pro Lys Asp
 225 230 235 240

Asp

<210> 746
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 746

Gln Ser Arg Gly Pro Gly Pro Val Thr Asp Gly Arg Gly Arg Glu Arg
 1 5 10 15

Gly Gly Gly Asp Thr Met Ser Ser Pro Ser Pro Gly Lys Arg Arg Met
 20 25 30

Asp Thr Asp Val Val Lys Leu Ile Glu Ser Lys His Glu Val Thr Ile
 35 40 45

Leu Gly Gly Leu Asn Glu Phe Val Val Lys Phe Tyr Gly Pro Gln Gly
 50 55 60

Thr Pro Tyr Glu Gly Gly Val Trp Lys Val Arg Val Asp Leu Pro Asp
 65 70 75 80

Lys Tyr Pro Phe Lys Ser Pro Ser Ile Gly Phe Met Asn Lys Ile Phe
 85 90 95

His Pro Asn Ile Asp Glu Ala Ser Gly Thr Val Cys Leu Asp Val Ile
 100 105 110

Asn Gln Thr Trp Thr Ala Leu Tyr Asp Leu Thr Asn Ile Phe Glu Ser
 115 120 125

Phe Leu Pro Gln Leu Leu Ala Tyr Pro Asn Pro Ile Asp Pro Leu Asn
 130 135 140

Gly Asp Ala Ala Ala Met Tyr Leu His Arg Pro Glu Glu Tyr Lys Gln
 145 150 155 160

Lys Ile Lys Glu Tyr Ile Gln Lys Tyr Ala Thr Glu Glu Phe Phe Leu

775

165 170 175
 His Asn Leu Gln Phe Gln Glu Phe Asn Leu
 180 185

<210> 747
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 747
 Leu Cys Cys Phe Lys Tyr Leu Gly Asp Cys Phe Ile Ile Ser Ser Thr
 1 5 10 15
 Lys Lys Thr Phe Asn Phe Ala Ile Glu Thr Val Glu Leu Cys His Ala
 20 25 30
 Phe Ile Arg Ser Ser Ala Leu Cys
 35 40

<210> 748
 <211> 65
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 748
 Gln Met Cys Leu Gln Gly Tyr Gly Xaa Ser Ile Thr Asn Phe His Val
 1 5 10 15
 Tyr Leu Glu Val Phe Leu Asn Gly Ile Pro Lys Ser Arg Ser Leu Lys
 20 25 30
 Met Pro Ile Lys Val Asn Asn Ile Tyr Leu Lys Arg Thr Leu Asn Met
 35 40 45
 Pro Ser Phe Leu Ile Arg Asn Ile Phe Glu Thr Trp Val Phe Val Asn
 50 55 60
 Asn
 65

776

<210> 749

<211> 143

<212> PRT

<213> Homo sapiens

<400> 749

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Val
 1 5 10 15

Arg Gln Ala Glu Met Leu Asp Asp Leu Met Glu Lys Arg Lys Glu Lys
 20 25 30

Leu Asp Ser Val Ile Glu Phe Ser Ile Pro Asp Ser Leu Leu Ile Arg
 35 40 45

Arg Ile Thr Gly Arg Leu Ile His Pro Lys Ser Gly Arg Ser Tyr His
 50 55 60

Glu Glu Phe Asn Pro Pro Lys Glu Pro Met Lys Asp Asp Ile Thr Gly
 65 70 75 80

Glu Pro Leu Ile Arg Arg Ser Asp Asp Asn Glu Lys Ala Leu Lys Ile
 85 90 95

Arg Leu Gln Ala Tyr His Thr Gln Thr Thr Pro Leu Ile Glu Tyr Tyr
 100 105 110

Arg Lys Arg Gly Ile His Ser Ala Ile Asp Ala Ser Gln Thr Pro Asp
 115 120 125

Val Val Phe Ala Ser Ile Leu Ala Ala Phe Ser Lys Ala Thr Ser
 130 135 140

<210> 750

<211> 136

<212> PRT

<213> Homo sapiens

<400> 750

Thr Glu Leu Val Leu Ser Ile Pro Arg His Met Pro Ala Ala Tyr Ser
 1 5 10 15

Arg Phe Leu Ser Trp Cys Leu Leu Ala Leu Gly Glu Glu Ala Lys Leu
 20 25 30

Trp Leu Pro Ala Ser Arg Ala Lys Arg Val Arg Pro Trp Ile Glu Thr
 35 40 45

777

Val Thr Ser Ile Ala Thr Pro Glu Arg Asn Asn Met Ala Val Lys Lys
 50 55 60
 Ser Arg Leu Lys Ser Lys Gln Lys Ala Gln Asp Thr Leu Gln Arg Val
 65 70 75 80
 Asn Gln Leu Lys Glu Glu Asn Glu Arg Leu Glu Ala Lys Ile Lys Leu
 85 90 95
 Leu Thr Lys Glu Leu Ser Val Leu Lys Asp Leu Phe Leu Glu His Ala
 100 105 110
 His Asn Leu Ala Asp Asn Val Gln Ser Ile Ser Thr Glu Asn Thr Thr
 115 120 125
 Ala Asp Gly Asp Asn Ala Gly Gln
 130 135

<210> 751

<211> 885

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 751

Pro Xaa Val Xaa Ser Lys His Leu Lys Asp Ser Met Cys Asn Glu Phe
 1 5 10 15
 Ser Gln Ile Phe Gln Leu Cys Gln Phe Val Met Glu Asn Ser Gln Asn
 20 25 30
 Ala Pro Leu Val His Ala Thr Leu Glu Thr Leu Leu Arg Phe Leu Asn
 35 40 45

Trp Ile Pro Leu Gly Tyr Ile Phe Glu Thr Lys Leu Ile Ser Thr Leu

780

595	600	605
Ala Arg Glu Pro Glu Val Leu Ser Thr Met Ala Ile Ile Val Asn Lys		
610	615	620
Leu Gly Gly His Ile Thr Ala Glu Ile Pro Gln Ile Phe Asp Ala Val		
625	630	635
Phe Glu Cys Thr Leu Asn Met Ile Asn Lys Asp Phe Glu Glu Tyr Pro		
	645	650
		655
Glu His Arg Thr Asn Phe Phe Leu Leu Leu Gln Ala Val Asn Ser His		
	660	665
		670
Cys Phe Pro Ala Phe Leu Ala Ile Pro Pro Thr Gln Phe Lys Leu Val		
	675	680
		685
Leu Asp Ser Ile Ile Trp Ala Phe Lys His Thr Met Arg Asn Val Ala		
	690	695
		700
Asp Thr Gly Leu Gln Ile Leu Phe Thr Leu Leu Gln Asn Val Ala Gln		
	705	710
		715
Glu Glu Ala Ala Ala Gln Ser Phe Tyr Gln Thr Tyr Phe Cys Asp Ile		
	725	730
		735
Leu Gln His Ile Phe Ser Val Val Thr Asp Thr Ser His Thr Ala Gly		
	740	745
		750
Leu Thr Met His Ala Ser Ile Leu Ala Tyr Met Phe Asn Leu Val Glu		
	755	760
		765
Glu Gly Lys Ile Ser Thr Ser Leu Asn Pro Gly Asn Pro Val Asn Asn		
	770	775
		780
Gln Ile Phe Leu Gln Glu Tyr Val Ala Asn Leu Leu Lys Ser Ala Phe		
	785	790
		795
Pro His Leu Gln Asp Ala Gln Val Lys Leu Phe Val Thr Gly Leu Phe		
	805	810
		815
Ser Leu Asn Gln Asp Ile Pro Ala Phe Lys Glu His Leu Arg Asp Phe		
	820	825
		830
Leu Val Gln Ile Lys Glu Phe Ala Gly Glu Asp Thr Ser Asp Leu Phe		
	835	840
		845
Leu Glu Glu Arg Glu Ile Ala Leu Arg Gln Ala Asp Glu Glu Lys His		
	850	855
		860
Lys Arg Gln Met Ser Val Pro Gly Ile Phe Asn Pro His Glu Ile Pro		

781

865 870 875 880

Glu Glu Met Cys Asp
885

<210> 752

<211> 209

<212> PRT

<213> Homo sapiens

<400> 752

Val Thr Phe Gly Val Ile Thr Ser Ile Ile Ile Trp Ala Leu Ala Ile
1 5 10 15Leu Ala Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp Glu Phe
20 25 30Thr His His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu Arg Glu
35 40 45Trp Lys Leu Phe Gln Ala Leu Lys Leu Asn Leu Phe Gly Leu Val Leu
50 55 60Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys Ile Leu
65 70 75 80Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu Ile Phe
85 90 95Val Ile Met Ile Ile Phe Phe Leu Phe Trp Thr Pro Tyr Asn Leu Thr
100 105 110Ile Leu Ile Ser Val Phe Gln Asp Phe Leu Phe Thr His Glu Cys Glu
115 120 125Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr Glu Val Ile Ala
130 135 140Tyr Thr His Cys Cys Val Asn Pro Val Ile Tyr Ala Phe Val Gly Glu
145 150 155 160Arg Phe Arg Lys Tyr Leu Arg Gln Leu Phe His Arg Arg Val Ala Val
165 170 175His Leu Val Lys Trp Leu Pro Phe Leu Ser Val Asp Arg Leu Glu Arg
180 185 190Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Leu Ser Ala Gly
195 200 205

782

Phe

<210> 753

<211> 214

<212> PRT

<213> Homo sapiens

<400> 753

Leu	Ser	Val	Ala	Ser	Leu	Ser	Phe	Leu	Pro	Asn	Ala	Ser	Ala	Glu	Asp
1				5					10					15	
Thr	Met	Ser	Arg	Leu	Ser	Arg	Ser	Leu	Leu	Trp	Ala	Ala	Thr	Cys	Leu
			20					25					30		
Gly	Val	Leu	Cys	Val	Leu	Ser	Ala	Asp	Lys	Asn	Thr	Thr	Gln	His	Pro
		35					40					45			
Asn	Val	Thr	Thr	Leu	Ala	Pro	Ile	Ser	Asn	Val	Thr	Ser	Ala	Pro	Val
		50				55					60				
Thr	Ser	Leu	Pro	Leu	Val	Thr	Thr	Pro	Ala	Pro	Glu	Thr	Cys	Glu	Gly
65					70					75					80
Arg	Asn	Ser	Cys	Val	Ser	Cys	Phe	Asn	Val	Ser	Val	Val	Asn	Thr	Thr
				85					90					95	
Cys	Phe	Trp	Ile	Glu	Cys	Lys	Asp	Glu	Ser	Tyr	Cys	Ser	His	Asn	Ser
			100					105					110		
Thr	Val	Ser	Asp	Cys	Gln	Val	Gly	Asn	Thr	Thr	Asp	Phe	Cys	Ser	Val
		115					120					125			
Ser	Thr	Ala	Thr	Pro	Val	Pro	Thr	Ala	Asn	Ser	Thr	Ala	Lys	Pro	Thr
		130				135					140				
Val	Gln	Pro	Ser	Pro	Ser	Thr	Thr	Ser	Lys	Thr	Val	Thr	Thr	Ser	Gly
145					150					155					160
Thr	Thr	Asn	Asn	Thr	Val	Thr	Pro	Thr	Ser	Gln	Pro	Val	Arg	Lys	Ser
				165					170					175	
Thr	Phe	Asp	Ala	Ala	Ser	Phe	Ile	Gly	Gly	Ile	Val	Leu	Val	Leu	Gly
		180						185					190		
Val	Gln	Ala	Val	Ile	Phe	Phe	Leu	Tyr	Lys	Phe	Cys	Lys	Ser	Lys	Glu
		195					200					205			

783

Arg Asn Tyr His Thr Leu
210

<210> 754

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 754

Pro Arg Pro Arg Glu Pro Gln Val Leu Ala Ala Gly Asp Val Arg Ser
1 5 10 15

Pro Ser Asp Pro Arg Arg Val Lys Ala Asn Leu Ser Glu Val Leu Val
20 25 30

Tyr Ser Val Leu Gly Val Asn Val Thr Ser Thr Glu Val Tyr Gly Ala
35 40 45

Phe Thr Cys Ser Ile Gln Asn Ile Ser Phe Ser Ser Phe Thr Leu Gln
50 55 60

Arg Ala Gly Pro Thr Ser His Val Ala Ala Val Leu Ala Ser Leu Leu
65 70 75 80

Val Leu Leu Ala Leu Leu Leu Ala Ala Leu Leu Tyr Val Lys Cys Arg
85 90 95

Leu Asn Val Leu Leu Trp Tyr Gln Asp Ala Tyr Gly Glu Val Glu Ile
100 105 110

Asn Asp Gly Lys Leu Tyr Asp Ala Tyr Val Ser Tyr Ser Asp Cys Pro
115 120 125

Glu Asp Arg Lys Phe Val Asn Phe Ile Leu Lys Pro Gln Leu Glu Arg
130 135 140

Arg Arg Gly Tyr Lys Leu Phe Leu Asp Asp Arg Asp Leu Leu Pro Arg
145 150 155 160

Ala Glu Pro Ser Ala Asp Leu Leu Val Asn Leu Ser Arg Cys Arg Arg
165 170 175

Leu Ile Val Val Leu Ser Asp Ala Phe Leu Ser Arg Ala Trp Cys Ser
180 185 190

784

His Ser Phe Arg Glu Gly Leu Cys Arg Leu Leu Glu Leu Thr Arg Arg
 195 200 205

Pro Ile Phe Ile Thr Phe Glu Gly Gln Arg Arg Asp Pro Ala His Pro
 210 215 220

Ala Leu Arg Leu Leu Arg Xaa His Arg His Leu Val Thr Leu Leu Leu
 225 230 235 240

Trp Arg Pro Gly Ser Val Thr Pro Ser Ser Asp Phe Trp Lys Glu Val
 245 250 255

Gln Leu Ala Leu Pro Arg Lys Val Arg Tyr Arg Pro Val Glu Gly Asp
 260 265 270

Pro Gln Thr Gln Leu Gln Asp Asp Lys Asp Pro Met Leu Ile Leu Arg
 275 280 285

Gly Arg Val Pro Glu Gly Arg Ala Leu Asp Ser Glu Val Asp Pro Asp
 290 295 300

Pro Glu Gly Asp Leu Gly Val Arg Gly Pro Val Phe Gly Glu Pro Ser
 305 310 315 320

Ala Pro Pro His Thr Ser Gly Val Ser Leu Gly Glu Ser Arg Ser Ser
 325 330 335

Glu Val Asp Val Ser Asp Leu Gly Ser Arg Asn Tyr Ser Ala Arg Thr
 340 345 350

Asp Phe Tyr Cys Leu Val Ser Lys Asp Asp Met
 355 360

<210> 755

<211> 232

<212> PRT

<213> Homo sapiens

<400> 755

Pro Val Gln Pro Thr His Ala Pro Gly Thr Thr Ala Ala Ala His Asn
 1 5 10 15

Thr Thr Arg Thr Ala Ala Pro Ala Ser Thr Val Pro Gly Pro Thr Leu
 20 25 30

Ala Pro Gln Pro Ser Ser Val Lys Thr Gly Ile Tyr Gln Val Leu Asn
 35 40 45

785

Gly Ser Arg Leu Cys Ile Lys Ala Glu Met Gly Ile Gln Leu Ile Val
 50 55 60
 Gln Asp Lys Glu Ser Val Phe Ser Pro Arg Arg Tyr Phe Asn Ile Asp
 65 70 75 80
 Pro Asn Ala Thr Gln Ala Ser Gly Asn Cys Gly Thr Arg Lys Ser Asn
 85 90 95
 Leu Leu Leu Asn Phe Gln Gly Gly Phe Val Asn Leu Thr Phe Thr Lys
 100 105 110
 Asp Glu Glu Ser Tyr Tyr Ile Ser Glu Val Gly Ala Tyr Leu Thr Val
 115 120 125
 Ser Asp Pro Glu Thr Val Tyr Gln Gly Ile Lys His Ala Val Val Met
 130 135 140
 Phe Gln Thr Ala Val Gly His Ser Phe Lys Cys Val Ser Glu Gln Ser
 145 150 155 160
 Leu Gln Leu Ser Ala His Leu Gln Val Lys Thr Thr Asp Val Gln Leu
 165 170 175
 Gln Ala Phe Asp Phe Glu Asp Asp His Phe Gly Asn Val Asp Glu Cys
 180 185 190
 Ser Ser Asp Tyr Thr Ile Val Leu Pro Val Ile Gly Ala Ile Val Val
 195 200 205
 Gly Leu Cys Leu Met Gly Met Gly Val Tyr Lys Ile Arg Leu Arg Cys
 210 215 220
 Gln Ser Ser Gly Tyr Gln Arg Ile
 225 230

<210> 756

<211> 128

<212> PRT

<213> Homo sapiens

<400> 756

Lys Leu Leu Pro Val Val Ile Ile Ala Val Gly Val Phe Leu Phe Leu
 1 5 10 15
 Val Ala Phe Val Gly Cys Cys Gly Ala Cys Lys Glu Asn Tyr Cys Leu
 20 25 30
 Met Ile Thr Phe Ala Ile Phe Leu Ser Leu Ile Met Leu Val Glu Val

786

35	40	45
Ala Ala Ala Ile Ala Gly Tyr Val Phe Arg Asp Lys Val Met Ser Glu		
50	55	60
Phe Asn Asn Asn Phe Arg Gln Gln Met Glu Asn Tyr Pro Lys Asn Asn		
65	70	75 80
His Thr Ala Ser Ile Leu Asp Arg Met Gln Ala Asp Phe Lys Cys Cys		
	85 90	95
Gly Ala Ala Asn Tyr Thr Asp Trp Glu Lys Ile Pro Ser Met Ser Lys		
	100 105	110
Asn Arg Val Pro Asp Ser Cys Cys Ile Asn Val Thr Val Gly Leu Gly		
	115 120	125

<210> 757

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 757

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
1 5 10 15

Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
20 25 30

Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
35 40 45

Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
50 55 60

His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
65 70 75 80

Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
85 90 95

787

Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
 100 105 110
 Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
 115 120 125
 Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val
 130 135 140
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
 145 150 155 160
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
 165 170 175
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
 180 185 190
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
 195 200 205
 Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
 210 215 220
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
 225 230 235 240
 Pro Gly Glu Lys Asp Phe Arg Ile Ile Gly Leu Ser Gln Phe Leu His
 245 250 255

Ser

<210> 758
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 758
 Pro Gly Ser Thr His Ala Ser Gly Lys Ile Gln Asn Lys Trp Leu Arg
 1 5 10 15
 Pro Ser Pro Arg Ser His Arg Thr Pro Glu Ser Gly Arg Val Leu Ser
 20 25 30
 Leu Phe Arg Leu Pro Pro Pro Gly Met Ala Leu Ser Gly Ser Thr Pro
 35 40 45
 Ala Pro Cys Trp Glu Glu Asp Glu Cys Leu Asp Tyr Tyr Gly Met Leu

788

50	55	60
Ser Leu His Arg Met Phe Glu Val Val Gly Gly Gln Leu Thr Glu Cys		
65	70	75 80
Glu Leu Glu Leu Leu Ala Phe Leu Leu Asp Glu Ala Pro Gly Ala Ala		
	85	90 95
Gly Gly Leu Ala Arg Ala Arg Ser Gly Leu Glu Leu Leu Leu Glu Leu		
	100	105 110
Glu Arg Arg Gly Gln Cys Asp Glu Ser Asn Leu Arg Leu Leu Gly Gln		
	115	120 125
Leu Leu Arg Val Leu Ala Arg His Asp Leu Leu Pro His Leu Ala Arg		
	130	135 140
Lys Arg Arg Arg Pro Val Ser Pro Glu Arg Tyr Ser Tyr Gly Thr Ser		
	145	150 155 160
Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg Arg Arg Gln Ser		
	165	170 175
Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu Thr Gly Ser Pro		
	180	185 190
Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro Ser Gly Gly Ala		
	195	200 205
Arg Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln Gln Gln Ser Glu		
	210	215 220
Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys Asp Ile Arg Leu		
	225	230 235 240
Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala Leu Glu Gln Gly		
	245	250 255
Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln Leu Asp Val Phe		
	260	265 270
Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu Gly Ser Val Val		
	275	280 285
Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp Ala Phe Trp Gly		
	290	295 300
Asp Tyr Leu Ser Gly Ala Leu Leu Gln Pro Cys Gly Ala Cys Ser		
	305	310 315

789

<210> 759

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 759

Glu Ser Trp Leu Val Leu Gly Arg Arg Lys Ala Gly Arg Leu Ile Gly
 1 5 10 15

Ala Cys Gly Phe Glu Pro Pro His Phe Leu Thr Leu Asp Leu Glu Met
 20 25 30

His Arg Asp Ser Cys Pro Leu Asp Cys Lys Val Tyr Val Gly Asn Leu
 35 40 45

Gly Asn Asn Gly Asn Lys Thr Glu Leu Glu Arg Ala Phe Gly Tyr Tyr
 50 55 60

Gly Pro Leu Arg Ser Val Trp Val Ala Arg Asn Pro Pro Gly Phe Ala
 65 70 75 80

Phe Val Glu Phe Glu Asp Pro Arg Asp Ala Ala Asp Ala Val Arg Glu
 85 90 95

Leu Asp Gly Arg Thr Leu Cys Gly Cys Arg Val Arg Val Glu Leu Ser
 100 105 110

Asn Gly Glu Lys Arg Ser Arg Asn Arg Gly Pro Pro Pro Ser Trp Gly
 115 120 125

Arg Arg Pro Arg Asp Asp Tyr Arg Arg Arg Ser Pro Pro Pro Arg Arg
 130 135 140

Arg Val Xaa Ile Met Ser Leu Leu Thr Thr Leu
 145 150 155

<210> 760

<211> 753

<212> PRT

<213> Homo sapiens

<400> 760

Leu Lys Lys Gly Ala Ala Glu Glu Ala Glu Leu Glu Asp Ser Asp Asp

790

1	5	10	15
Glu Glu Lys Pro Val Lys Gln Asp Asp Phe Pro Lys Asp Phe Gly Pro	20	25	30
Arg Lys Leu Lys Thr Gly Gly Asn Phe Lys Pro Ser Gln Lys Gly Phe	35	40	45
Ala Gly Gly Thr Lys Ser Phe Met Asp Phe Gly Ser Trp Glu Arg His	50	55	60
Thr Lys Gly Ile Gly Gln Lys Leu Leu Gln Lys Met Gly Tyr Val Pro	65	70	75
Gly Arg Gly Leu Gly Lys Asn Ala Gln Gly Ile Ile Asn Pro Ile Glu	85	90	95
Ala Lys Gln Arg Lys Gly Lys Gly Ala Val Gly Ala Tyr Gly Ser Glu	100	105	110
Arg Thr Thr Gln Ser Met Gln Asp Phe Pro Val Val Asp Ser Glu Glu	115	120	125
Glu Ala Glu Glu Glu Phe Gln Lys Glu Leu Ser Gln Trp Arg Lys Asp	130	135	140
Pro Ser Gly Ser Lys Lys Lys Pro Lys Tyr Ser Tyr Lys Thr Val Glu	145	150	155
Glu Leu Lys Ala Lys Gly Arg Ile Ser Lys Lys Leu Thr Ala Pro Gln	165	170	175
Lys Glu Leu Ser Gln Val Lys Val Ile Asp Met Thr Gly Arg Glu Gln	180	185	190
Lys Val Tyr Tyr Ser Tyr Ser Gln Ile Ser His Lys His Asn Val Pro	195	200	205
Asp Asp Gly Leu Pro Leu Gln Ser Gln Gln Leu Pro Gln Ser Gly Lys	210	215	220
Glu Ala Lys Ala Pro Gly Phe Ala Leu Pro Glu Leu Glu His Asn Leu	225	230	235
Gln Leu Leu Ile Asp Leu Thr Glu Gln Glu Ile Ile Gln Asn Asp Arg	245	250	255
Gln Leu Gln Tyr Glu Arg Asp Met Val Val Asn Leu Phe His Glu Leu	260	265	270
Glu Lys Met Thr Glu Val Leu Asp His Glu Glu Arg Val Ile Ser Asn			

791

275					280					285						
Leu	Ser	Lys	Val	Leu	Glu	Met	Val	Glu	Glu	Cys	Glu	Arg	Arg	Met	Gln	
290					295					300						
Pro	Asp	Cys	Ser	Asn	Pro	Leu	Thr	Leu	Asp	Glu	Cys	Ala	Arg	Ile	Phe	
305					310					315					320	
Glu	Thr	Leu	Gln	Asp	Lys	Tyr	Tyr	Glu	Glu	Tyr	Arg	Met	Ser	Asp	Arg	
				325					330					335		
Val	Asp	Leu	Ala	Val	Ala	Ile	Val	Tyr	Pro	Leu	Met	Lys	Glu	Tyr	Phe	
			340					345					350			
Lys	Glu	Trp	Asp	Pro	Leu	Lys	Asp	Cys	Thr	Tyr	Gly	Thr	Glu	Ile	Ile	
		355					360					365				
Ser	Lys	Trp	Lys	Ser	Leu	Leu	Glu	Asn	Asp	Gln	Leu	Leu	Ser	His	Gly	
	370					375					380					
Gly	Gln	Asp	Leu	Ser	Ala	Asp	Ala	Phe	His	Arg	Leu	Ile	Trp	Glu	Val	
385					390					395					400	
Trp	Met	Pro	Phe	Val	Arg	Asn	Ile	Val	Thr	Gln	Trp	Gln	Pro	Arg	Asn	
				405					410					415		
Cys	Asp	Pro	Met	Val	Asp	Phe	Leu	Asp	Ser	Trp	Val	His	Ile	Ile	Pro	
			420					425					430			
Val	Trp	Ile	Leu	Asp	Asn	Ile	Leu	Asp	Gln	Leu	Ile	Phe	Pro	Lys	Leu	
		435					440					445				
Gln	Lys	Glu	Val	Glu	Asn	Trp	Asn	Pro	Leu	Thr	Asp	Thr	Val	Pro	Ile	
	450					455					460					
His	Ser	Trp	Ile	His	Pro	Trp	Leu	Pro	Leu	Met	Gln	Ala	Arg	Leu	Glu	
465					470					475					480	
Pro	Leu	Tyr	Ser	Pro	Ile	Arg	Ser	Lys	Leu	Ser	Ser	Ala	Leu	Gln	Lys	
				485					490					495		
Trp	His	Pro	Ser	Asp	Ser	Ser	Ala	Lys	Leu	Ile	Leu	Gln	Pro	Trp	Lys	
			500					505					510			
Asp	Val	Phe	Thr	Pro	Gly	Ser	Trp	Glu	Ala	Phe	Met	Val	Lys	Asn	Ile	
		515					520					525				
Val	Pro	Lys	Leu	Gly	Met	Cys	Leu	Gly	Glu	Leu	Val	Ile	Asn	Pro	His	
	530					535					540					
Gln	Gln	His	Met	Asp	Ala	Phe	Tyr	Trp	Val	Ile	Asp	Trp	Glu	Gly	Met	

792

545		550		555		560
Ile Ser Val Ser Ser Leu Val Gly Leu Leu Glu Lys His Phe Phe Pro						
	565			570		575
Lys Trp Leu Gln Val Leu Cys Ser Trp Leu Ser Asn Ser Pro Asn Tyr						
	580		585			590
Glu Glu Ile Thr Lys Trp Tyr Leu Gly Trp Lys Ser Met Phe Ser Asp						
	595		600			605
Gln Val Leu Ala His Pro Ser Val Lys Asp Lys Phe Asn Glu Ala Leu						
	610		615			620
Asp Ile Met Asn Arg Ala Val Ser Ser Asn Val Gly Ala Tyr Met Gln						
625		630		635		640
Pro Gly Ala Arg Glu Asn Ile Ala Tyr Leu Thr His Thr Glu Arg Arg						
	645		650			655
Lys Asp Phe Gln Tyr Glu Ala Met Gln Glu Arg Arg Glu Ala Glu Asn						
	660		665			670
Met Ala Gln Arg Gly Ile Gly Val Ala Ala Ser Ser Val Pro Met Asn						
	675		680			685
Phe Lys Asp Leu Ile Glu Thr Lys Ala Glu Glu His Asn Ile Val Phe						
	690		695			700
Met Pro Val Ile Gly Lys Arg His Glu Gly Lys Gln Leu Tyr Thr Phe						
705		710		715		720
Gly Arg Ile Val Ile Tyr Ile Asp Arg Gly Val Val Phe Val Gln Gly						
	725		730			735
Glu Lys Thr Trp Val Pro Thr Ser Leu Gln Ser Leu Ile Asp Met Ala						
	740		745			750

Lys

<210> 761

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

793

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 761

Val	Ala	Lys	Asp	Met	Ala	Ala	Ala	Xaa	Val	Arg	Cys	Ile	Arg	Lys	Glu
1				5					10					15	

Ile	Arg	Asp	Leu	Tyr	Val	Asn	Ile	Gln	Pro	Val	Gln	Glu	Pro	Lys	Asp
			20					25					30		

Gln	Ala	Phe	Gly	Asn	Gly	Asn	Gly	Ile	Ile	Ile	Ile	Ala	Glu	Thr	Ser
		35					40					45			

Thr	Gly	Cys	Leu	Phe	Ala	Gly	Ser	Ser	Leu	Gly	Lys	Arg	Gly	Val	Asn
	50					55					60				

Ala	Asp	Lys	Val	Gly	Ile	Glu	Ala	Ala	Glu	Met	Leu	Leu	Ala	Asn	Leu
65					70					75					80

Arg	His	Gly	Gly	Thr	Val	Asp	Glu	Tyr	Leu	Gln	Asp	Gln	Leu	Ile	Val
				85					90					95	

Phe	Met	Ala	Leu	Ala	Asn	Gly	Val	Ser	Arg	Ile	Lys	Thr	Gly	Pro	Val
			100					105					110		

Thr	Leu	His	Thr	Gln	Thr	Ala	Ile	His	Phe	Ala	Glu	Gln	Ile	Ala	Lys
		115					120					125			

Ala	Lys	Phe	Ile	Val	Lys	Lys	Ser	Glu	Asp	Glu	Glu	Asp	Ala	Ala	Lys
	130					135					140				

Asp	Thr	Tyr	Ile	Ile	Glu	Cys	Gln	Gly	Ile	Gly	Met	Thr	Asn	Pro	Asn
145					150					155					160

Leu

<210> 762

<211> 491

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

794

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (401)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (457)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 762

Ile Thr Cys Pro Leu Phe Leu Gly Gly Pro Ser Pro Ala Glu Asp Arg
1 5 10 15

Cys Ala Ile Glu Leu Ser Arg Arg Gly Arg Val Pro Leu Gly Arg His
20 25 30

Arg Ala Glu Pro Ser Pro Pro Ala Phe Cys Ser Lys Val Glu Gly Tyr
35 40 45

Gly Ser Val Cys Ser Cys Lys Asp Pro Thr Pro Ile Glu Phe Ser Pro
50 55 60

Asp Pro Leu Pro Asp Asn Lys Val Leu Asn Val Pro Val Xaa Val Ile
65 70 75 80

Ala Gly Asn Arg Pro Asn Tyr Leu Tyr Arg Met Leu Arg Ser Leu Leu
85 90 95

Ser Ala Gln Gly Val Ser Pro Gln Met Ile Thr Val Phe Ile Asp Gly
100 105 110

Tyr Tyr Glu Glu Pro Met Asp Val Val Ala Leu Phe Gly Leu Arg Gly
115 120 125

Ile Gln His Thr Pro Ile Ser Ile Lys Asn Ala Arg Val Ser Gln His
130 135 140

Tyr Lys Ala Ser Leu Thr Ala Thr Phe Asn Leu Phe Pro Xaa Ala Lys
145 150 155 160

Phe Ala Val Val Leu Glu Glu Asp Leu Asp Ile Ala Val Asp Phe Phe
165 170 175

Ser Phe Leu Ser Gln Ser Ile His Leu Leu Glu Glu Asp Asp Ser Leu
180 185 190

Tyr Cys Ile Ser Ala Trp Asn Asp Gln Gly Tyr Glu His Thr Ala Glu
195 200 205

795

Asp	Pro	Ala	Leu	Leu	Tyr	Arg	Val	Glu	Thr	Met	Pro	Gly	Leu	Gly	Trp
210						215					220				
Val	Leu	Arg	Arg	Ser	Leu	Tyr	Lys	Glu	Glu	Leu	Glu	Pro	Lys	Trp	Pro
225					230					235					240
Thr	Pro	Glu	Lys	Leu	Trp	Asp	Trp	Asp	Met	Trp	Met	Arg	Met	Pro	Glu
				245					250					255	
Gln	Arg	Arg	Gly	Arg	Glu	Cys	Ile	Ile	Pro	Asp	Val	Ser	Arg	Ser	Tyr
			260					265					270		
His	Phe	Gly	Ile	Val	Gly	Leu	Asn	Met	Asn	Gly	Tyr	Phe	His	Glu	Ala
		275					280					285			
Tyr	Phe	Lys	Lys	His	Lys	Phe	Asn	Thr	Val	Pro	Gly	Val	Gln	Leu	Arg
	290					295					300				
Asn	Val	Asp	Ser	Leu	Lys	Lys	Glu	Ala	Tyr	Glu	Val	Glu	Val	His	Arg
305					310					315					320
Leu	Leu	Ser	Glu	Ala	Glu	Val	Leu	Asp	His	Ser	Lys	Asn	Pro	Cys	Glu
				325					330					335	
Asp	Ser	Phe	Leu	Pro	Asp	Thr	Glu	Gly	His	Thr	Tyr	Val	Ala	Phe	Ile
			340					345					350		
Arg	Met	Glu	Lys	Asp	Asp	Asp	Phe	Thr	Thr	Trp	Thr	Gln	Leu	Ala	Lys
		355					360					365			
Cys	Leu	His	Ile	Trp	Asp	Leu	Asp	Val	Arg	Gly	Asn	His	Arg	Gly	Leu
	370					375					380				
Trp	Arg	Leu	Phe	Arg	Lys	Lys	Asn	His	Phe	Leu	Val	Val	Gly	Val	Pro
385					390					395					400
Xaa	Ser	Pro	Tyr	Ser	Pro	Gly	Ser	Glu	Ser	Asn	Leu	Phe	Ile	Asp	Cys
				405					410					415	
Pro	Glu	Gly	Leu	Glu	Asn	Arg	Pro	Asn	Leu	Glu	Gly	Leu	Asp	Phe	Phe
			420					425					430		
Leu	Gly	Trp	Asn	Ala	Ala	Leu	Arg	Val	Gly	Leu	Ala	Leu	Thr	Gln	Glu
			435				440					445			
Thr	Ala	Val	Pro	Asn	Pro	Trp	Thr	Xaa	Pro	Ala	Gly	Ala	His	Met	Leu
	450					455					460				
Thr	Gln	Thr	His	Ser	Glu	Thr	Leu	Arg	His	Trp	Thr	Arg	Pro	Pro	Leu
465					470					475					480

796

Ser Leu Leu Phe Val Gln Ile Ser Lys Ala Gly
 485 490

<210> 763

<211> 53

<212> PRT

<213> Homo sapiens

<400> 763

Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys
 1 5 10 15

Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe
 20 25 30

Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu
 35 40 45

Leu Leu Pro Leu Pro
 50

<210> 764

<211> 176

<212> PRT

<213> Homo sapiens

<400> 764

His Ala Ser Ala His Ala Ser Ala His Ala Ser Gly Arg Arg Lys Lys
 1 5 10 15

Glu Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu
 20 25 30

Pro Gly Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala
 35 40 45

Pro Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn
 50 55 60

Asn Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu
 65 70 75 80

Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr
 85 90 95

Asp Pro Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile

797

100	105	110
Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly		
115	120	125
Tyr Lys Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys		
130	135	140
Asp Gly Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Ala Trp Met		
145	150	155
Gly Arg Leu Ile Ser Pro Val Ser Leu Gln Thr Ser Thr Gly Lys Ala		
165	170	175

<210> 765

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 765

Val Xaa Pro Gly Phe Glu Asn Ile Leu Phe Ala His Ser Ser Trp Tyr
1 5 10 15

Thr Tyr Ala Ala Met Leu Arg Ile Tyr Lys His Trp Asp Phe Asn Ile
20 25 30

Ile Asp Lys Asp Thr Ser Ser Ser Arg Leu Ser Phe Ser Ser Tyr Pro
35 40 45

Gly Phe Leu Glu Ser Leu Asp Asp Phe Tyr Ile Leu Ser Ser Gly Leu
50 55 60

Ile Leu Leu Gln Thr Thr Asn Ser Val Phe Asn Lys Thr Leu Leu Lys
65 70 75 80

Gln Val Ile Pro Glu Thr Leu Leu Ser Trp Gln Arg Val Arg Val Ala

85

95

Tyr Asn Ser Gly Thr Tyr Asn Asn Gln Tyr Met Val Leu Asp Leu Lys
115 120 125

Lys Val Lys Leu Asn His Ser Leu Asp Lys Gly Thr Leu Tyr Ile Val
130 135 140

Glu Gln Ile Pro Thr Tyr Val Glu Tyr Ser Glu Gln Thr Asp Val Leu
145 150 155 160

Arg Lys Gly Tyr Trp Pro Ser Tyr Asn Val Pro Phe His Glu Lys Ile
165 170 175

Tyr Asn Trp Ser Gly Tyr Pro Leu Leu Val Gln Lys Leu Gly Leu Asp
180 185 190

Tyr Ser Tyr Asp Leu Ala Pro Arg Ala Lys Ile Phe Arg Arg Asp Gln
195 200 205

Gly Lys Val Thr Asp Thr Ala Ser Met Lys Tyr Ile Met Arg Tyr Asn
210 215 220

Asn Tyr Lys Lys Asp Pro Tyr Ser Arg Gly Asp Pro Cys Asn Thr Ile
225 230 235 240

Cys Cys Arg Glu Asp Leu Asn Ser Pro Asn Pro Ser Pro Gly Gly Cys
245 250 255

Tyr Asp Thr Lys Val Ala Asp Ile Tyr Leu Ala Ser Gln Tyr Thr Ser
260 265 270

Tyr Ala Ile Ser Gly Pro Thr Val Gln Gly Gly Leu Pro Val Phe Arg
275 280 285

Trp Asp Arg Phe Asn Lys Thr Leu His Gln Gly Met Xaa Glu Val Tyr
290 295 300

Asn Phe Asp Phe Ile Thr Met Lys Pro Ile Leu Lys Leu Asp Ile Lys
305 310 315 320

<211> 848

799

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 766

Gln Xaa Ala Tyr Ile Ala Val Xaa Arg Ala Gly Gly Ile Glu Thr Ile
 1 5 10 15

Ala Asn Glu Phe Ser Asp Arg Cys Thr Pro Ser Val Ile Ser Phe Gly
 20 25 30

Ser Lys Asn Arg Thr Ile Gly Val Ala Ala Lys Asn Gln Gln Ile Thr
 35 40 45

His Ala Asn Asn Thr Val Ser Asn Phe Lys Arg Phe His Gly Arg Ala
 50 55 60

Phe Asn Asp Pro Phe Ile Gln Lys Glu Lys Glu Asn Leu Ser Tyr Asp
 65 70 75 80

Leu Val Pro Leu Lys Asn Gly Gly Val Gly Ile Lys Val Met Tyr Met
 85 90 95

Gly Glu Glu His Leu Phe Ser Val Glu Gln Ile Thr Ala Met Leu Leu
 100 105 110

Thr Lys Leu Lys Glu Thr Ala Glu Asn Ser Leu Lys Lys Pro Val Thr
 115 120 125

Asp Cys Val Ile Ser Val Pro Ser Phe Phe Thr Asp Ala Glu Arg Arg
 130 135 140

Ser Val Leu Asp Ala Ala Gln Ile Val Gly Leu Asn Cys Leu Arg Leu
 145 150 155 160

Met Asn Asp Met Thr Ala Val Ala Leu Asn Tyr Gly Ile Tyr Lys Gln
 165 170 175

Asp Leu Pro Ser Leu Asp Glu Lys Pro Arg Ile Val Val Phe Val Asp
 180 185 190

Met Gly His Ser Ala Phe Gln Val Ser Ala Cys Ala Phe Asn Lys Gly

800

195	200	205
Lys Leu Lys Val Leu Gly Thr Ala Phe Asp Pro Phe Leu Gly Gly Lys		
210	215	220
Asn Phe Asp Glu Lys Leu Val Glu His Phe Cys Ala Glu Phe Lys Thr		
225	230	235
Lys Tyr Lys Leu Asp Ala Lys Ser Lys Ile Arg Ala Leu Leu Arg Leu		
	245	250
		255
Tyr Gln Glu Cys Glu Lys Leu Lys Lys Leu Met Ser Ser Asn Ser Thr		
	260	265
		270
Asp Leu Pro Leu Asn Ile Glu Cys Phe Met Asn Asp Lys Asp Val Ser		
	275	280
		285
Gly Lys Met Asn Arg Ser Gln Phe Glu Glu Leu Cys Ala Glu Leu Leu		
	290	295
		300
Gln Lys Ile Glu Val Pro Leu Tyr Ser Leu Leu Glu Gln Thr His Leu		
305	310	315
		320
Lys Val Glu Asp Val Ser Ala Val Glu Ile Val Gly Gly Ala Thr Arg		
	325	330
		335
Ile Pro Ala Val Lys Glu Arg Ile Ala Lys Phe Phe Gly Lys Asp Ile		
	340	345
		350
Ser Thr Thr Leu Asn Ala Asp Glu Ala Val Ala Arg Gly Cys Ala Leu		
	355	360
		365
Gln Cys Ala Ile Leu Ser Pro Ala Phe Lys Val Arg Glu Phe Ser Val		
	370	375
		380
Thr Asp Ala Val Pro Phe Pro Ile Ser Leu Ile Trp Asn His Asp Ser		
385	390	395
		400
Glu Asp Thr Glu Gly Val His Glu Val Phe Ser Arg Asn His Ala Ala		
	405	410
		415
Pro Phe Ser Lys Val Leu Thr Phe Leu Arg Arg Gly Pro Phe Glu Leu		
	420	425
		430
Glu Ala Phe Tyr Ser Asp Pro Gln Gly Val Pro Tyr Pro Glu Ala Lys		
	435	440
		445
Ile Gly Arg Phe Val Val Gln Asn Val Ser Ala Gln Lys Asp Gly Glu		
450	455	460
Lys Ser Arg Val Lys Val Lys Val Arg Val Asn Thr His Gly Ile Phe		

801

465		470		475		480
Thr Ile Ser Thr	Ala Ser Met Val	Glu Lys Val Pro	Thr Glu Glu Asn			
	485	490	495			
Glu Met Ser Ser	Glu Ala Asp Met	Glu Cys Leu Asn	Gln Arg Pro Pro			
	500	505	510			
Glu Asn Pro Asp	Thr Asp Lys Asn	Val Gln Gln Asp	Asn Ser Glu Ala			
	515	520	525			
Gly Thr Gln Pro	Gln Val Gln Thr	Asp Ala Gln Gln	Thr Ser Gln Ser			
	530	535	540			
Pro Pro Ser Pro	Glu Leu Thr Ser	Glu Glu Asn Lys	Ile Pro Asp Ala			
	545	550	555			560
Asp Lys Ala Asn	Glu Lys Lys Val	Asp Gln Pro Pro	Glu Ala Lys Lys			
	565	570	575			
Pro Lys Ile Lys	Val Val Asn Val	Glu Leu Pro Ile	Glu Ala Asn Leu			
	580	585	590			
Val Trp Gln Leu	Gly Lys Asp Leu	Leu Asn Met Tyr	Ile Glu Thr Glu			
	595	600	605			
Gly Lys Met Ile	Met Gln Asp Lys	Leu Glu Lys Glu	Arg Asn Asp Ala			
	610	615	620			
Lys Asn Ala Val	Glu Glu Tyr Val	Tyr Glu Phe Arg	Asp Lys Leu Cys			
	625	630	635			640
Gly Pro Tyr Glu	Lys Phe Ile Cys	Glu Gln Asp His	Gln Asn Phe Leu			
	645	650	655			
Arg Leu Leu Thr	Glu Thr Glu Asp	Trp Leu Tyr Glu	Glu Gly Glu Asp			
	660	665	670			
Gln Ala Lys Gln	Ala Tyr Val Asp	Lys Leu Glu Glu	Leu Met Lys Ile			
	675	680	685			
Gly Thr Pro Val	Lys Val Arg Phe	Gln Glu Ala Glu	Glu Arg Pro Lys			
	690	695	700			
Met Phe Glu Glu	Leu Gly Gln Arg	Leu Gln His Tyr	Ala Lys Ile Ala			
	705	710	715			720
Ala Asp Phe Arg	Asn Lys Asp Glu	Lys Tyr Asn His	Ile Asp Glu Ser			
	725	730	735			
Glu Met Lys Lys	Val Glu Lys Ser	Val Asn Glu Val	Met Glu Trp Met			

802

740	745	750
Asn Asn Val Met Asn Ala Gln Ala Lys Lys Ser Leu Asp Gln Asp Pro		
755	760	765
Val Val Arg Ala Gln Glu Ile Lys Thr Lys Ile Lys Glu Leu Asn Asn		
770	775	780
Thr Cys Glu Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu Ser Pro		
785	790	795
Lys Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile Asp Lys Lys Glu Glu		
805	810	815
Asp Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu Pro Pro His Gln Asn		
820	825	830
Gly Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp Leu Asp		
835	840	845

<210> 767

<211> 306

<212> PRT

<213> Homo sapiens

<400> 767

Ser Ser Cys Cys Pro Leu His Phe Ser Ala Ser Tyr Thr Thr Ala Asn
1 5 10 15
Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser Glu Asp Gly
20 25 30
Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg Lys Asp Ser
35 40 45
Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser Ala Leu Glu
50 55 60
Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu Leu Gln Gln
65 70 75 80
Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg Glu Gly Phe
85 90 95
Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg Gln Asp Phe
100 105 110

803

Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu Leu Thr Glu
 115 120 125
 Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys Glu Glu Ala
 130 135 140
 Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys His Leu Trp
 145 150 155 160
 Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser Ile Gln Arg
 165 170 175
 Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp Lys Ala Ile
 180 185 190
 Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu Gly Arg Trp
 195 200 205
 Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys Thr Ala Thr
 210 215 220
 Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu Asp Ala Leu Gln
 225 230 235 240
 Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe Ser Lys Ala Gly
 245 250 255
 Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly Lys Asn Ser Glu
 260 265 270
 Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro Asp Val Thr Lys
 275 280 285
 Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu Glu Val Ile Leu
 290 295 300
 Arg Asp
 305

<210> 768

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

804

<400> 768

Leu Ser Leu Arg Thr Xaa Glu Thr Pro Ala Pro Pro Arg Cys Glu Ala
 1 5 10 15

Ala Ser Gln Gly Arg Val Gly Trp Arg Ala Asp Ala Ala Ala Glu Glu
 20 25 30

Ala Val Arg Ser Val Trp Asn Arg Thr Arg Asp Arg Gly Thr Met Ala
 35 40 45

Pro Gln Asn Leu Ser Thr Phe Cys Leu Leu Leu Leu Tyr Leu Ile Gly
 50 55 60

Ala Val Ile Ala Gly Arg Asp Phe Tyr Lys Ile Leu Gly Val Pro Arg
 65 70 75 80

Ser Ala Ser Ile Lys Asp Ile Lys Lys Ala Tyr Arg Lys Leu Ala Leu
 85 90 95

Gln Leu His Pro Asp Arg Asn Pro Asp Asp Pro Gln Ala Gln Glu Lys
 100 105 110

Phe Gln Asp Leu Gly Ala Ala Tyr Glu Val Leu Ser Asp Ser Glu Lys
 115 120 125

Arg Lys Gln Tyr Asp Thr Tyr Gly Glu Glu Gly Leu Lys Asp Gly His
 130 135 140

Gln Ser Ser His Gly Asp Ile Phe Ser His Phe Phe Gly Asp Phe Gly
 145 150 155 160

Phe Met Phe Gly Gly Thr Pro Arg Gln Gln Asp Arg Asn Ile Pro Arg
 165 170 175

Gly Ser Asp Ile Ile Val Asp Leu Glu Val Thr Leu Glu Glu Val Tyr
 180 185 190

Ala Gly Asn Phe Val Glu Val Val Arg Asn Lys Pro Val Ala Arg Gln
 195 200 205

Ala Pro Gly Lys Arg Lys Cys Asn Cys Arg Gln Glu Met Arg Thr Thr
 210 215 220

Gln Leu Gly Pro Gly Arg Phe Gln Met Thr Gln Glu Val Val Cys Asp
 225 230 235 240

Glu Cys Pro Asn Val Lys Leu Val Asn Glu Glu Arg Thr Leu Glu Val
 245 250 255

Glu Ile Glu Pro Gly Val Arg Asp Gly Met Glu Tyr Pro Phe Ile Gly

805

260	265	270
Glu Gly Glu Pro His Val Asp	Gly Glu Pro Gly Asp	Leu Arg Phe Arg
275	280	285
Ile Lys Val Val Lys His Pro	Ile Phe Glu Arg Arg	Gly Asp Asp Leu
290	295	300
Tyr Thr Asn Val Thr Ile Ser	Leu Val Glu Ser Leu Val	Gly Phe Glu
305	310	315
Met Asp Ile Thr His Leu Asp	Gly His Lys Val His Ile	Ser Arg Asp
325	330	335
Lys Ile Thr Arg Pro Gly Ala	Lys Leu Trp Lys Lys	Gly Glu Gly Leu
340	345	350
Pro Asn Phe Asp Asn Asn Asn	Ile Lys Gly Ser Leu Ile	Ile Thr Phe
355	360	365
Asp Val Asp Phe Pro Lys Glu	Gln Leu Thr Glu Glu Ala	Arg Glu Gly
370	375	380
Ile Lys Gln Leu Leu Lys Gln	Gly Ser Val Gln Lys Val	Tyr Asn Gly
385	390	395
400		

Leu Gln Gly Tyr

<210> 769

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 769

Ile	Glu	Phe	Val	Phe	Leu	Glu	Pro	Trp	Val	Phe	Thr	Cys	Leu	Val	Phe
1					5				10				15		

Phe Cys Phe Gly Leu Ser Pro Ser Ile Lys Glu Val Tyr Ser Ser Lys

806

20								25					30				
Lys	Lys	Lys	Lys	Asn	Xaa	Arg	Gly	Gly	Pro	Xaa	Pro	Asn	Ser	Pro	Tyr		
35				40				45									
Ser	Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp		
50		55				60											
Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Ala	Ala	His	Pro		
65		70				75				80							
Pro	Phe	Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro		
85				90				95									
Ser	Gln	Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu	Trp	Gln	Ile	Val	Ser	Val		
100				105				110									
Asn	Ile	Leu	Val	Lys	Phe	Ala	Leu	Asn	Phe	Trp							
115				120													

<210> 770

<211> 172

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 770

Xaa Arg Gly Cys Val Val Glu Gly Asn Pro Val Leu Ala Gly Ser Cys
1 5 10 15

Asp Ser Thr Cys Ser His Leu Val Val Pro Ile Leu Leu Leu Val Ser
20 25 30

Leu Gly Ser Ala Leu Ala Cys Leu Thr His Thr Pro Ser Phe Met Leu
35 40 45

Ile Leu Arg Gly Val Lys Lys Glu Asp Lys Thr Leu Ala Val Gly Ile
50 55 60

Gln Phe Met Phe Leu Arg Ile Leu Ala Trp Met Pro Ser Pro Val Ile
65 70 75 80

His Gly Ser Ala Ile Asp Thr Thr Cys Val His Trp Ala Leu Ser Cys
85 90 95

807

Gly Arg Arg Ala Val Cys Arg Tyr Tyr Asn Asn Asp Leu Leu Arg Asn
 100 105 110
 Arg Phe Ile Gly Leu Gln Phe Phe Phe Lys Thr Gly Ser Val Ile Cys
 115 120 125
 Phe Ala Leu Val Leu Ala Val Leu Arg Gln Gln Asp Lys Glu Ala Arg
 130 135 140
 Thr Lys Glu Ser Arg Ser Ser Pro Ala Val Glu Gln Gln Leu Leu Val
 145 150 155 160
 Ser Gly Pro Gly Lys Lys Pro Glu Asp Ser Arg Val
 165 170

<210> 771

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 771

Arg Arg Thr Gln Tyr Leu Gly Ser Pro Gly Pro Asp Arg Gly Arg Lys
 1 5 10 15

Gln Arg Ala Xaa Cys Gly Ala Asp Xaa Gly Asp Glu Met Thr Thr Ser
 20 25 30

Thr Leu Gln Lys Ala Ile Asp Leu Val Thr Lys Ala Thr Glu Glu Asp
 35 40 45

Lys Ala Lys Asn Tyr Glu Glu Ala Leu Arg Leu Tyr Gln His Ala Val
 50 55 60

Glu Tyr Phe Leu His Ala Ile Lys Tyr Glu Ala His Ser Asp Lys Ala

808

65		70		75		80									
Lys	Glu	Ser	Ile	Arg	Ala	Lys	Cys	Val	Gln	Tyr	Leu	Asp	Arg	Ala	Glu
				85					90					95	
Lys	Leu	Lys	Asp	Tyr	Leu	Arg	Xaa	Lys	Glu	Lys	His	Gly	Lys	Lys	Pro
			100					105					110		
Val	Lys	Glu	Asn	Gln	Ser	Glu	Gly	Lys	Gly	Ser	Asp	Ser	Asp	Ser	Glu
		115					120					125			
Gly	Asp	Asn	Pro	Glu	Lys	Lys	Lys	Leu	Gln	Glu	Gln	Leu	Met	Gly	Ala
	130					135					140				
Val	Val	Met	Glu	Lys	Pro	Asn	Ile	Arg	Trp	Asn	Asp	Val	Ala	Gly	Leu
145					150					155					160
Glu	Gly	Ala	Lys	Glu	Ala	Leu	Lys	Glu	Ala	Val	Ile	Leu	Pro	Ile	Lys
			165					170						175	
Phe	Pro	His	Leu	Phe	Thr	Gly	Lys	Arg	Thr	Pro	Trp	Arg	Gly	Ile	Leu
			180					185					190		
Leu	Phe	Gly	Pro	Pro	Gly	Thr	Gly	Lys	Ser	Tyr	Leu	Ala	Lys	Ala	Val
	195						200					205			
Ala	Thr	Glu	Ala	Asn	Asn	Ser	Thr	Phe	Phe	Ser	Val	Ser	Ser	Ser	Asp
	210					215					220				
Leu	Met	Ser	Lys	Trp	Leu	Gly	Glu	Ser	Glu	Lys	Leu	Val	Lys	Asn	Leu
225					230					235					240
Phe	Glu	Leu	Ala	Arg	Gln	His	Lys	Pro	Ser	Ile	Ile	Phe	Ile	Asp	Glu
			245					250						255	
Val	Asp	Ser	Leu	Cys	Gly	Ser	Arg	Asn	Glu	Asn	Glu	Ser	Glu	Ala	Ala
			260					265					270		
Arg	Arg	Ile	Lys	Thr	Glu	Phe	Leu	Val	Gln	Met	Gln	Gly	Val	Gly	Asn
		275					280					285			
Asn	Asn	Asp	Gly	Thr	Leu	Val	Leu	Gly	Ala	Thr	Asn	Ile	Pro	Trp	Val
	290					295					300				
Leu	Asp	Ser	Ala	Ile	Arg	Arg	Arg	Phe	Glu	Lys	Arg	Ile	Tyr	Ile	Pro
305					310					315					320
Leu	Pro	Glu	Glu	Ala	Ala	Arg	Ala	Gln	Met	Phe	Arg	Leu	His	Leu	Gly
			325					330						335	
Ser	Thr	Pro	His	Asn	Leu	Thr	Asp	Ala	Asn	Ile	His	Glu	Leu	Ala	Arg

809

	340		345		350										
Lys	Thr	Glu	Gly	Tyr	Ser	Gly	Ala	Asp	Ile	Ser	Ile	Ile	Val	Arg	Asp
	355						360					365			
Ser	Leu	Met	Gln	Pro	Val	Arg	Lys	Val	Gln	Ser	Ala	Thr	His	Phe	Lys
	370					375					380				
Lys	Val	Cys	Gly	Pro	Ser	Arg	Thr	Asn	Pro	Ser	Met	Met	Ile	Asp	Asp
385					390					395					400
Leu	Leu	Thr	Pro	Cys	Ser	Pro	Gly	Asp	Pro	Gly	Ala	Met	Glu	Met	Thr
			405						410					415	
Trp	Met	Asp	Val	Pro	Gly	Asp	Lys	Leu	Leu	Glu	Pro	Val	Val	Cys	Met
			420					425						430	
Ser	Asp	Met	Leu	Arg	Ser	Leu	Ala	Thr	Thr	Arg	Pro	Thr	Val	Asn	Ala
	435						440					445			
Asp	Asp	Leu	Leu	Lys	Val	Lys	Lys	Phe	Ser	Glu	Asp	Phe	Gly	Gln	Glu
450						455					460				
Ser															
465															

<210> 772

<211> 467

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (445)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 772

Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly

1

5

10

15

810

Asp	Asn	Ser	Thr	Asp	Thr	Thr	Gln	Gly	Asp	Pro	Leu	Ser	Ile	His	His	20	25	30
Tyr	Phe	His	Gly	Tyr	Leu	Ala	Gly	Phe	Ser	Val	Arg	Ser	Gly	Arg	Leu	35	40	45
Glu	Ser	Arg	Glu	Val	Ile	Glu	Cys	Leu	Tyr	Ala	Cys	Arg	Glu	Gly	Leu	50	55	60
Asp	Tyr	Arg	Asp	Phe	Glu	Ser	Leu	Gly	Lys	Gly	Met	Lys	Val	His	Val	65	70	75
Asn	Pro	Ser	Gln	Ser	Leu	Leu	Thr	Leu	Glu	Gly	Asp	Asp	Val	Glu	Thr	85	90	95
Phe	Asn	His	Ala	Leu	Gln	His	Val	Ala	Tyr	Met	Asn	Thr	Leu	Arg	Phe	100	105	110
Ala	Thr	Pro	Gly	Val	Arg	Pro	Leu	Arg	Leu	Thr	Thr	Ala	Val	Lys	Cys	115	120	125
Phe	Ser	Glu	Glu	Ser	Cys	Val	Ser	Ile	Pro	Glu	Val	Glu	Gly	Tyr	Val	130	135	140
Val	Val	Leu	Gln	Pro	Asp	Xaa	Pro	Gln	Ile	Leu	Leu	Ser	Gly	Thr	Xaa	145	150	155
His	Phe	Ala	Arg	Pro	Ala	Val	Asp	Phe	Glu	Gly	Thr	Asn	Gly	Val	Pro	165	170	175
Leu	Phe	Pro	Asp	Leu	Gln	Ile	Thr	Cys	Ser	Ile	Ser	His	Gln	Val	Glu	180	185	190
Ala	Lys	Lys	Asp	Glu	Ser	Trp	Gln	Gly	Thr	Val	Thr	Asp	Thr	Arg	Met	195	200	205
Ser	Asp	Glu	Ile	Val	His	Asn	Leu	Asp	Gly	Cys	Glu	Ile	Ser	Leu	Val	210	215	220
Gly	Asp	Asp	Leu	Asp	Pro	Glu	Arg	Glu	Ser	Leu	Leu	Leu	Asp	Thr	Thr	225	230	235
Ser	Leu	Gln	Gln	Arg	Gly	Leu	Glu	Leu	Thr	Asn	Thr	Ser	Ala	Tyr	Leu	245	250	255
Thr	Ile	Ala	Gly	Val	Glu	Ser	Ile	Thr	Val	Tyr	Glu	Glu	Ile	Leu	Arg	260	265	270
Gln	Ala	Arg	Tyr	Arg	Leu	Arg	His	Gly	Ala	Ala	Leu	Tyr	Thr	Arg	Lys	275	280	285

811

Phe Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu
 290 295 300

Phe Ile Val Glu Val Asn Val Leu His Ser Met Asn Arg Val Ala His
 305 310 315 320

Pro Ser His Val Leu Ser Ser Gln Gln Phe Leu His Arg Gly His Gln
 325 330 335

Pro Pro Pro Glu Met Ala Gly His Ser Leu Ala Ser Ser His Arg Asn
 340 345 350

Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly
 355 360 365

Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu
 370 375 380

His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp
 385 390 395 400

Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile
 405 410 415

Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly
 420 425 430

Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser Xaa Ser Glu Val
 435 440 445

Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro
 450 455 460

His Arg Tyr
 465

<210> 773

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

812

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 773

Phe	Phe	Lys	Ser	Ile	Val	Asn	Ile	Arg	Ile	Ile	Xaa	Lys	Ser	Asn	Phe
1					5				10					15	

Lys	Leu	Gln	His	Ile	Ala	Ser	Lys	Gln	Tyr	Arg	Asp	Phe	Xaa	Ile	Pro
			20					25					30		

Tyr	Lys	Xaa	Xaa	Trp	Leu	Lys	Xaa	Xaa	Ile	His	Ile	Lys	Leu	Ile	Leu
		35					40					45			

Phe	Phe	Ala	Cys	Leu	Phe	Cys	Val	Leu	Val	Ala	Ser	Leu	Lys	Phe	Asp
		50				55						60			

Leu	Xaa	Leu	Leu	Phe	Val	Xaa	Gln	Ile	His
65						70			

813

<210> 774

<211> 492

<212> PRT

<213> Homo sapiens

<400> 774

Gly	Ala	Ser	Trp	Arg	Ala	Arg	Thr	Arg	Gly	Ser	Arg	Asp	Asp	Pro	Ser	1	5	10	15
Arg	Ala	Ala	Ala	Ala	Val	Pro	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Val	20	25	30	
Ser	Trp	Ala	Ser	Arg	Gly	Glu	Ala	Ala	Pro	Asp	Gln	Asp	Glu	Ile	Gln	35	40	45	
Arg	Leu	Pro	Gly	Leu	Ala	Lys	Gln	Pro	Ser	Phe	Arg	Gln	Tyr	Ser	Gly	50	55	60	
Tyr	Leu	Lys	Gly	Ser	Gly	Ser	Lys	His	Leu	His	Tyr	Trp	Phe	Val	Glu	65	70	75	80
Ser	Gln	Lys	Asp	Pro	Glu	Asn	Ser	Pro	Val	Val	Leu	Trp	Leu	Asn	Gly	85	90	95	
Gly	Pro	Gly	Cys	Ser	Ser	Leu	Asp	Gly	Leu	Leu	Thr	Glu	His	Gly	Pro	100	105	110	
Phe	Leu	Val	Gln	Pro	Asp	Gly	Val	Thr	Leu	Glu	Tyr	Asn	Pro	Tyr	Ser	115	120	125	
Trp	Asn	Leu	Ile	Ala	Asn	Val	Leu	Tyr	Leu	Glu	Ser	Pro	Ala	Gly	Val	130	135	140	
Gly	Phe	Ser	Tyr	Ser	Asp	Asp	Lys	Phe	Tyr	Ala	Thr	Asn	Asp	Thr	Glu	145	150	155	160
Val	Ala	Gln	Ser	Asn	Phe	Glu	Ala	Leu	Gln	Asp	Phe	Phe	Arg	Leu	Phe	165	170	175	
Pro	Glu	Tyr	Lys	Asn	Asn	Lys	Leu	Phe	Leu	Thr	Gly	Glu	Ser	Tyr	Ala	180	185	190	
Gly	Ile	Tyr	Ile	Pro	Thr	Leu	Ala	Val	Leu	Val	Met	Gln	Asp	Pro	Ser	195	200	205	
Met	Asn	Leu	Gln	Gly	Leu	Ala	Val	Gly	Asn	Gly	Leu	Ser	Ser	Tyr	Glu	210	215	220	
Gln	Asn	Asp	Asn	Ser	Leu	Val	Tyr	Phe	Ala	Tyr	Tyr	His	Gly	Leu	Leu	225	230	235	240

814

Gly Asn Arg Leu Trp Ser Ser Leu Gln Thr His Cys Cys Ser Gln Asn
 245 250 255
 Lys Cys Asn Phe Tyr Asp Asn Lys Asp Leu Glu Cys Val Thr Asn Leu
 260 265 270
 Gln Glu Val Ala Arg Ile Val Gly Asn Ser Gly Leu Asn Ile Tyr Asn
 275 280 285
 Leu Tyr Ala Pro Cys Ala Gly Gly Val Pro Ser His Phe Arg Tyr Glu
 290 295 300
 Lys Asp Thr Val Val Val Gln Asp Leu Gly Asn Ile Phe Thr Arg Leu
 305 310 315 320
 Pro Leu Lys Arg Met Trp His Gln Ala Leu Leu Arg Ser Gly Asp Lys
 325 330 335
 Val Arg Met Asp Pro Pro Cys Thr Asn Thr Thr Ala Ala Ser Thr Tyr
 340 345 350
 Leu Asn Asn Pro Tyr Val Arg Lys Ala Leu Asn Ile Pro Glu Gln Leu
 355 360 365
 Pro Gln Trp Asp Met Cys Asn Phe Leu Val Asn Leu Gln Tyr Arg Arg
 370 375 380
 Leu Tyr Arg Ser Met Asn Ser Gln Tyr Leu Lys Leu Leu Ser Ser Gln
 385 390 395 400
 Lys Tyr Gln Ile Leu Leu Tyr Asn Gly Asp Val Asp Met Ala Cys Asn
 405 410 415
 Phe Met Gly Asp Glu Trp Phe Val Asp Ser Leu Asn Gln Lys Met Glu
 420 425 430
 Val Gln Arg Arg Pro Trp Leu Val Lys Tyr Gly Asp Ser Gly Glu Gln
 435 440 445
 Ile Ala Gly Phe Val Lys Glu Phe Ser His Ile Ala Phe Leu Thr Ile
 450 455 460
 Lys Gly Ala Gly His Met Val Pro Thr Asp Lys Pro Leu Ala Ala Phe
 465 470 475 480
 Thr Met Phe Ser Arg Phe Leu Asn Lys Gln Pro Tyr
 485 490

<210> 775

815

<211> 464

<212> PRT

<213> Homo sapiens

<400> 775

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Pro Val Gly Pro Gly Gly Pro Gln Arg Arg Ala Arg Ala Pro Gln Asp
 1             5             10             15

Ala Arg Thr Cys Ser Gln Ala Gly Pro Ala Ser His Ala Glu Ser Tyr
          20             25             30

Asn Pro Pro Pro Glu Tyr Leu Leu Ser Glu Glu Glu Arg Leu Ala Trp
      35             40             45

Glu Gln Gln Glu Pro Gly Glu Arg Lys Leu Ser Phe Leu Pro Arg Lys
 50             55             60

Phe Pro Ser Leu Arg Ala Val Pro Ala Tyr Gly Arg Phe Ile Gln Glu
 65             70             75             80

Arg Phe Glu Arg Cys Leu Asp Leu Tyr Leu Cys Pro Arg Gln Arg Lys
          85             90             95

Met Arg Val Asn Val Asp Pro Glu Asp Leu Ile Pro Lys Leu Pro Arg
      100             105             110

Pro Arg Asp Leu Gln Pro Phe Pro Thr Cys Gln Ala Leu Val Tyr Arg
      115             120             125

Gly His Ser Asp Leu Val Arg Cys Leu Ser Val Ser Pro Gly Gly Gln
 130             135             140

Trp Leu Val Ser Gly Ser Asp Asp Gly Ser Leu Arg Leu Trp Glu Val
 145             150             155             160

Ala Thr Ala Arg Cys Val Arg Thr Val Pro Val Gly Gly Val Val Lys
          165             170             175

Ser Val Ala Trp Asn Pro Ser Pro Ala Val Cys Leu Val Ala Ala Ala
      180             185             190

Val Glu Asp Ser Val Leu Leu Leu Asn Pro Ala Leu Gly Asp Arg Leu
      195             200             205

Val Ala Gly Ser Thr Asp Gln Leu Leu Ser Ala Phe Val Pro Pro Glu
      210             215             220

Glu Pro Pro Leu Gln Pro Ala Arg Trp Leu Glu Ala Ser Glu Glu Glu
 225             230             235             240

Arg Gln Val Gly Leu Arg Leu Arg Ile Cys His Gly Lys Pro Val Thr

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816

	245		250		255
Gln Val Thr Trp His Gly Arg Gly Asp Tyr Leu Ala Val Val Leu Ala	260		265		270
Thr Gln Gly His Thr Gln Val Leu Ile His Gln Leu Ser Arg Arg Arg	275		280		285
Ser Gln Ser Pro Phe Arg Arg Ser His Gly Gln Val Gln Arg Val Ala	290		295		300
Phe His Pro Ala Arg Pro Phe Leu Leu Val Ala Ser Gln Arg Ser Val	305		310		315
Arg Leu Tyr His Leu Leu Arg Gln Glu Leu Thr Lys Lys Leu Met Pro	325		330		335
Asn Cys Lys Trp Val Ser Ser Leu Ala Val His Pro Ala Gly Asp Asn	340		345		350
Val Ile Cys Gly Ser Tyr Asp Ser Lys Leu Val Trp Phe Asp Leu Asp	355		360		365
Leu Ser Thr Lys Pro Tyr Arg Met Leu Arg His His Lys Lys Ala Leu	370		375		380
Arg Ala Val Ala Phe His Pro Arg Tyr Pro Leu Phe Ala Ser Gly Ser	385		390		395
Asp Asp Gly Ser Val Ile Val Cys His Gly Met Val Tyr Asn Asp Leu	405		410		415
Leu Gln Asn Pro Leu Leu Val Pro Val Lys Val Leu Lys Gly His Val	420		425		430
Leu Thr Arg Asp Leu Gly Val Leu Asp Val Ile Phe His Pro Thr Gln	435		440		445
Pro Trp Val Phe Ser Ser Gly Ala Asp Gly Thr Val Arg Leu Phe Thr	450		455		460

<210> 776

<211> 339

<212> PRT

<213> Homo sapiens

817

<400> 776

Val	Val	Asn	Ser	Ser	Phe	Pro	Ala	Thr	Arg	Asn	Arg	Thr	Val	Gly	Thr
1				5					10					15	
Ile	Ser	Lys	His	Leu	Asp	Trp	His	Arg	Lys	Glu	Glu	Lys	Glu	His	Leu
			20					25					30		
Lys	Gly	Val	Gln	Asp	Pro	Gln	His	Glu	Arg	Ile	Ile	Thr	Val	Ser	Thr
		35					40					45			
Asn	Gly	Ser	Ile	His	Ser	Pro	Arg	Phe	Pro	His	Thr	Tyr	Pro	Arg	Asn
	50					55					60				
Thr	Val	Leu	Val	Trp	Arg	Leu	Val	Ala	Val	Glu	Glu	Asn	Val	Trp	Ile
65					70					75					80
Gln	Leu	Thr	Phe	Asp	Glu	Arg	Phe	Gly	Leu	Glu	Asp	Pro	Glu	Asp	Asp
				85					90					95	
Ile	Cys	Lys	Tyr	Asp	Phe	Val	Glu	Val	Glu	Glu	Pro	Ser	Asp	Gly	Thr
			100					105					110		
Ile	Leu	Gly	Arg	Trp	Cys	Gly	Ser	Gly	Thr	Val	Pro	Gly	Lys	Gln	Ile
		115					120					125			
Ser	Lys	Gly	Asn	Gln	Ile	Arg	Ile	Arg	Phe	Val	Ser	Asp	Glu	Tyr	Phe
	130					135					140				
Pro	Ser	Glu	Pro	Gly	Phe	Cys	Ile	His	Tyr	Asn	Ile	Val	Met	Pro	Gln
145					150					155					160
Phe	Thr	Glu	Ala	Val	Ser	Pro	Ser	Val	Leu	Pro	Pro	Ser	Ala	Leu	Pro
				165					170					175	
Leu	Asp	Leu	Leu	Asn	Asn	Ala	Ile	Thr	Ala	Phe	Ser	Thr	Leu	Glu	Asp
			180					185					190		
Leu	Ile	Arg	Tyr	Leu	Glu	Pro	Glu	Arg	Trp	Gln	Leu	Asp	Leu	Glu	Asp
		195					200					205			
Leu	Tyr	Arg	Pro	Thr	Trp	Gln	Leu	Leu	Gly	Lys	Ala	Phe	Val	Phe	Gly
	210					215					220				
Arg	Lys	Ser	Arg	Val	Val	Asp	Leu	Asn	Leu	Leu	Thr	Glu	Glu	Val	Arg
225					230					235					240
Leu	Tyr	Ser	Cys	Thr	Pro	Arg	Asn	Phe	Ser	Val	Ser	Ile	Arg	Glu	Glu
				245					250					255	
Leu	Lys	Arg	Thr	Asp	Thr	Ile	Phe	Trp	Pro	Gly	Cys	Leu	Leu	Val	Lys
			260					265					270		

818

Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys
 275 280 285
 Gln Cys Val Pro Ser Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln
 290 295 300
 Leu Arg Pro Lys Thr Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp
 305 310 315 320
 Val Ala Leu Glu His His Glu Glu Cys Asp Cys Val Cys Arg Gly Ser
 325 330 335
 Thr Gly Gly

<210> 777
 <211> 194
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (155)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 777
 Pro Arg Arg Phe Gln Arg Gly Gly Ser Thr Pro Arg Val Gly Val Cys
 1 5 10 15
 Ala Arg Pro Gly Pro Xaa Gly His Val Ala Pro Gly Gly Glu Arg Met
 20 25 30
 Ser Phe Arg Gly Gly Gly Arg Gly Gly Phe Asn Arg Gly Gly Gly Gly
 35 40 45
 Gly Gly Phe Asn Arg Gly Gly Ser Ser Asn His Phe Arg Gly Gly Gly
 50 55 60
 Gly Gly Gly Gly Gly Gly Asn Phe Arg Gly Gly Gly Arg Gly Gly Phe
 65 70 75 80
 Gly Arg Gly Gly Gly Arg Gly Gly Phe Asn Lys Gly Gln Asp Gln Gly
 85 90 95

819

Pro Pro Glu Arg Val Val Leu Leu Gly Glu Phe Leu His Pro Cys Glu
 100 105 110
 Asp Asp Ile Val Cys Lys Cys Thr Thr Asp Glu Asn Lys Val Pro Tyr
 115 120 125
 Phe Asn Ala Pro Val Tyr Leu Glu Asn Lys Glu Gln Ile Gly Lys Val
 130 135 140
 Asp Glu Ile Phe Gly Gln Leu Arg Asp Phe Xaa Phe Ser Val Lys Leu
 145 150 155 160
 Ser Glu Asn Met Lys Ala Ser Ser Phe Lys Lys Leu Gln Lys Phe Tyr
 165 170 175
 Ile Asp Pro Tyr Lys Leu Leu Pro Leu Gln Arg Trp Trp Gln Arg Arg
 180 185 190
 Trp Phe

<210> 778

<211> 117

<212> PRT

<213> Homo sapiens

<400> 778

Ala Gly Ala Val Ile Ile Gly Phe Arg Ser Lys Ile Lys Asn Ala Leu
 1 5 10 15
 Ala His Phe Leu Pro Gln Gly Thr Pro Thr Pro Leu Ile Pro Ile Leu
 20 25 30
 Val Ile Ile Glu Thr Ile Ser Leu Leu Ile Gln Pro Ile Ala Leu Ala
 35 40 45
 Val Arg Leu Thr Ala Asn Ile Thr Ala Gly His Leu Leu Met His Leu
 50 55 60
 Ile Gly Ser Ala Thr Leu Ala Ile Ser Thr Ile Asn Leu Pro Ser Thr
 65 70 75 80
 Leu Ile Ile Phe Thr Ile Leu Ile Leu Leu Thr Ile Leu Glu Ile Ala
 85 90 95
 Val Ala Leu Ile Gln Ala Tyr Val Phe Thr Leu Leu Val Ser Leu Tyr
 100 105 110

820

Leu His Asp Asn Thr
115

<210> 779

<211> 429

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (388)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 779

Gly Gly Arg Thr Xaa Ser Ser Pro Glu Lys Asp Pro Xaa Ala Arg Val
1 5 10 15

Pro Ser Ser Gly Phe Pro Asn Pro Gly Asp Ser Ala Pro Gly Arg Cys
20 25 30

Tyr Gly Arg His Phe His Ser Val Pro Gly Gly Gln Arg Ser Arg Arg
35 40 45

Ser Pro Val Ala Gly Gln His Gly Glu Arg Pro Gln Pro Gly Leu Leu
50 55 60

Gln Tyr Lys Ala Asp Ile Asn Ala Val Asn Glu His Gly Asn Val Pro
65 70 75 80

Leu His Tyr Ala Cys Phe Trp Gly Gln Asp Gln Val Ala Glu Asp Leu
85 90 95

Val Ala Asn Gly Ala Leu Val Ser Ile Cys Asn Lys Tyr Gly Glu Met
100 105 110

Pro Val Asp Lys Ala Lys Ala Pro Leu Arg Glu Leu Leu Arg Glu Arg
115 120 125

Ala Glu Lys Met Gly Gln Asn Leu Asn Arg Ile Pro Tyr Lys Asp Thr

821

130		135		140	
Phe Trp Lys Gly Thr Thr Arg Thr Arg Pro Arg Asn Gly Thr Leu Asn					
145		150		155	160
Lys His Ser Gly Ile Asp Phe Lys Gln Leu Asn Phe Leu Thr Lys Leu					
	165		170		175
Asn Glu Asn His Ser Gly Glu Leu Trp Lys Gly Arg Trp Gln Gly Asn					
	180		185		190
Asp Ile Val Val Lys Val Leu Lys Val Arg Asp Trp Ser Thr Arg Lys					
	195		200		205
Ser Arg Asp Phe Asn Glu Glu Cys Pro Arg Leu Arg Ile Phe Ser His					
	210		215		220
Pro Asn Val Leu Pro Val Leu Gly Ala Cys Gln Ser Pro Pro Ala Pro					
	225		230		235
His Pro Thr Leu Ile Thr His Trp Met Pro Tyr Gly Ser Leu Tyr Asn					
	245		250		255
Val Leu His Glu Gly Thr Asn Phe Val Val Asp Gln Ser Gln Ala Val					
	260		265		270
Lys Phe Ala Leu Asp Met Ala Arg Gly Met Ala Phe Leu His Thr Leu					
	275		280		285
Glu Pro Leu Ile Pro Arg His Ala Leu Asn Ser Arg Ser Val Met Ile					
	290		295		300
Asp Glu Asp Met Thr Ala Arg Ile Ser Met Ala Asp Val Lys Phe Ser					
	305		310		315
Phe Gln Cys Pro Gly Arg Met Tyr Ala Pro Ala Trp Val Ala Pro Glu					
	325		330		335
Ala Leu Gln Lys Lys Pro Glu Asp Thr Asn Arg Arg Ser Ala Asp Met					
	340		345		350
Trp Ser Phe Ala Val Leu Leu Trp Glu Leu Val Thr Arg Glu Val Pro					
	355		360		365
Phe Ala Asp Leu Ser Asn Met Glu Ile Gly Met Lys Val Ala Leu Glu					
	370		375		380
Gly Leu Arg Xaa Thr Ile Pro Pro Gly Ile Ser Pro His Val Cys Lys					
	385		390		395
Leu Met Lys Ile Cys Met Asn Glu Asp Pro Ala Lys Arg Pro Lys Phe					

824

Ser	Leu	Pro	Val	Val	Val	Ile	Ser	Asn	Ile	Cys	Gln	Met	Pro	Asn	Ala	485	490	495
Trp	Ala	Ser	Ile	Leu	Trp	Tyr	Asn	Met	Leu	Thr	Asn	Asn	Pro	Lys	Asn	500	505	510
Val	Asn	Phe	Phe	Thr	Lys	Pro	Pro	Ile	Gly	Thr	Trp	Asp	Gln	Val	Ala	515	520	525
Glu	Val	Leu	Ser	Trp	Gln	Phe	Ser	Ser	Thr	Thr	Lys	Arg	Gly	Leu	Ser	530	535	540
Ile	Glu	Gln	Leu	Thr	Thr	Leu	Ala	Glu	Lys	Leu	Leu	Gly	Pro	Gly	Val	545	550	555
Asn	Tyr	Ser	Gly	Cys	Gln	Ile	Thr	Trp	Ala	Lys	Phe	Cys	Lys	Glu	Asn	565	570	575
Met	Ala	Gly	Lys	Gly	Phe	Ser	Phe	Trp	Val	Trp	Leu	Asp	Asn	Ile	Ile	580	585	590
Asp	Leu	Val	Lys	Lys	Tyr	Ile	Leu	Ala	Leu	Trp	Asn	Glu	Gly	Tyr	Ile	595	600	605
Met	Gly	Phe	Ile	Ser	Lys	Glu	Arg	Glu	Arg	Ala	Ile	Leu	Ser	Thr	Lys	610	615	620
Pro	Pro	Gly	Thr	Phe	Leu	Leu	Arg	Phe	Ser	Glu	Ser	Ser	Lys	Glu	Gly	625	630	635
Gly	Val	Thr	Phe	Thr	Trp	Val	Glu	Lys	Asp	Ile	Ser	Gly	Lys	Thr	Gln	645	650	655
Ile	Gln	Ser	Val	Glu	Pro	Tyr	Thr	Lys	Gln	Gln	Leu	Asn	Asn	Met	Ser	660	665	670
Phe	Ala	Glu	Ile	Ile	Met	Gly	Tyr	Lys	Ile	Met	Asp	Ala	Thr	Asn	Ile	675	680	685
Leu	Val	Ser	Pro	Leu	Val	Tyr	Leu	Tyr	Pro	Asp	Ile	Pro	Lys	Glu	Glu	690	695	700
Ala	Phe	Gly	Lys	Tyr	Cys	Arg	Pro	Glu	Ser	Gln	Glu	His	Pro	Glu	Ala	705	710	715
Asp	Pro	Gly	Ser	Ala	Ala	Pro	Tyr	Leu	Lys	Thr	Lys	Phe	Ile	Cys	Val	725	730	735
Thr	Pro	Thr	Thr	Cys	Ser	Asn	Thr	Ile	Asp	Leu	Pro	Met	Ser	Pro	Arg	740	745	750

825

Thr Leu Asp Ser Leu Met Gln Phe Gly Asn Asn Gly Glu Gly Ala Glu
 755 760 765

Pro Ser Ala Gly Gly Gln Phe Glu Ser Leu Thr Phe Asp Met Glu Leu
 770 775 780

Thr Ser Glu Cys Ala Thr Ser Pro Met
 785 790

<210> 781

<211> 338

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (319)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 781

Val Ser Leu Pro Val Val Pro Ala Ser Phe Ser Phe Pro Pro Cys Pro
 1 5 10 15

Ala Ala Gly Pro Gly Gln Pro Gly Ser Gly Trp Gly Gly Val Leu Pro
 20 25 30

Ser Ser Ser Trp Asp Ile Ala Arg Val Arg Ser Thr Pro Ser Gln Pro
 35 40 45

Leu Leu Trp Ser Pro Val Gly Arg Gly Ala Ala Ile Leu Val Ala Arg
 50 55 60

Gly Val Ser Arg Ile Arg Arg Val Ser Leu Pro Ser Arg Trp Arg Gly
 65 70 75 80

Leu Cys Pro Cys Ser Val Thr Ala Ala Leu Gly Lys Arg Ser Ala Pro
 85 90 95

Lys Thr Asp Val Thr Ile Thr Asn Asp Gly Ala Thr Ile Leu Lys Leu
 100 105 110

Leu Glu Val Glu His Pro Ala Ala Lys Val Leu Cys Glu Leu Ala Asp
 115 120 125

826

Leu Gln Asp Lys Glu Val Gly Asp Gly Thr Thr Ser Val Val Ile Ile
 130 135 140
 Ala Ala Glu Leu Leu Lys Asn Ala Asp Glu Leu Val Lys Gln Lys Ile
 145 150 155 160
 His Pro Thr Ser Val Ile Ser Gly Tyr Arg Leu Ala Cys Lys Glu Ala
 165 170 175
 Val Arg Tyr Ile Asn Glu Asn Leu Ile Val Asn Thr Asp Glu Leu Gly
 180 185 190
 Arg Asp Cys Leu Ile Asn Ala Ala Lys Thr Ser Met Ser Ser Lys Ile
 195 200 205
 Ile Gly Ile Asn Gly Asp Phe Phe Ala Asn Met Val Val Asp Ala Val
 210 215 220
 Leu Ala Ile Lys Tyr Thr Asp Ile Arg Gly Gln Pro Arg Tyr Pro Val
 225 230 235 240
 Asn Ser Val Asn Ile Leu Lys Ala His Gly Arg Ser Gln Met Glu Ser
 245 250 255
 Met Leu Ile Ser Gly Tyr Ala Leu Asn Cys Val Val Gly Ser Gln Gly
 260 265 270
 Met Pro Lys Arg Ile Val Asn Ala Lys Ile Ala Cys Leu Asp Phe Ser
 275 280 285
 Leu Gln Lys Thr Lys Met Lys Leu Gly Val Gln Val Val Ile Thr Asp
 290 295 300
 Pro Glu Lys Leu Asp Gln Ile Arg Xaa Ser Asn Tyr Ser Val Xaa Pro
 305 310 315 320
 Gly Pro Ile Trp Lys Val Lys Lys Leu Leu Lys Cys Asn Val Gly Thr
 325 330 335
 Gly Arg

<210> 782

<211> 100

<212> PRT

<213> Homo sapiens

<400> 782

827

Ile Leu His Leu Asn Ala Leu Met Lys Asn Lys Ala Lys Thr Arg Val
 1 5 10 15
 Leu Gly His Ser Ser Ala Gln Arg Val Pro Gly Asp Gly Arg Pro Leu
 20 25 30
 Ser Pro His Pro Leu Thr Leu Glu Asn Trp Val Phe Ser Gln Tyr Ser
 35 40 45
 Ser Asn Ser Phe Leu Lys Ala Val Glu Pro Leu Tyr Ser Lys Val His
 50 55 60
 Cys Arg Cys Ser Asn Ser Pro Phe Leu Phe Pro Leu Pro Pro Ala Ser
 65 70 75 80
 Phe Ala Asp Ser Gln Leu Val Met Ser Val Ser Ile Lys Asp Ile Met
 85 90 95
 Leu Leu Arg Phe
 100

<210> 783

<211> 312

<212> PRT

<213> Homo sapiens

<400> 783

Phe Gly Arg Ala Ile Ala Arg Val Thr Gly Asn Pro Val Gln Gly Ala
 1 5 10 15
 Pro Pro Ser Trp Thr Ser Pro Arg Lys Ile Leu Arg Glu His Arg Ser
 20 25 30
 Ser His Arg Cys His Cys Tyr Cys Arg Tyr Cys Cys Arg Arg Val Cys
 35 40 45
 Thr Ser Arg Pro Ala Ser Val Pro Ala Gly Ala Ser Val Asp Arg Pro
 50 55 60
 Arg Pro Leu Ser Arg Cys Val Arg Thr Pro Val Pro Gly Pro Asp Ala
 65 70 75 80
 Pro Leu Pro Pro Gly Lys Leu Pro Ser His Gln Gln Pro Pro Ser Ala
 85 90 95
 Thr Met Ala Thr Ala Pro Tyr Asn Tyr Ser Tyr Ile Phe Lys Tyr Ile
 100 105 110
 Ile Ile Gly Asp Met Gly Val Gly Lys Ser Cys Leu Leu His Gln Phe

828

115	120	125
Thr Glu Lys Lys Phe Met Ala Asp Cys Pro His Thr Ile Gly Val Glu		
130	135	140
Phe Gly Thr Arg Ile Ile Glu Val Ser Gly Gln Lys Ile Lys Leu Gln		
145	150	155
Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Ala Val Thr Arg Ser		
	165	170
Tyr Tyr Arg Gly Ala Ala Gly Ala Leu Met Val Tyr Asp Ile Thr Arg		
	180	185
Arg Ser Thr Tyr Asn His Leu Ser Ser Trp Leu Thr Asp Ala Arg Asn		
	195	200
Leu Thr Asn Pro Asn Thr Val Ile Ile Leu Ile Gly Asn Lys Ala Asp		
	210	215
Leu Glu Ala Gln Arg Asp Val Thr Tyr Glu Glu Ala Lys Gln Phe Ala		
	225	230
Glu Glu Asn Gly Leu Leu Phe Leu Glu Ala Ser Ala Lys Thr Gly Glu		
	245	250
Asn Val Glu Asp Ala Phe Leu Glu Ala Ala Lys Lys Ile Tyr Gln Asn		
	260	265
Ile Gln Asp Gly Ser Leu Asp Leu Asn Ala Ala Glu Ser Gly Val Gln		
	275	280
His Lys Pro Ser Ala Pro Gln Gly Gly Arg Leu Thr Ser Glu Pro Gln		
	290	295
Pro Gln Arg Glu Gly Cys Gly Cys		
305	310	

<210> 784

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

829

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 784

Arg	Gly	Pro	Ala	Leu	Arg	Ala	Ala	Xaa	Thr	Ile	Lys	Trp	Arg	Val	Leu
1				5				10						15	

Gln	Pro	Ala	Pro	Ala	Ser	Glu	Arg	Glu	Met	Leu	Gly	Cys	Ser	Phe	Lys
		20						25					30		

Leu	Arg	Thr	Thr	His	His	Ala	Tyr	Pro	Gly	Ala	Glu	Gly	Pro	Asp	His
		35					40					45			

His	Ser	Leu	Arg	Thr	Glu	Glu	Ala	Ala	Cys	Tyr	Ser	Trp	Cys	Cys	Ile
	50						55				60				

Pro	Pro	Asp	Xaa	Leu	Leu	Phe	Pro	Gly
65					70			

<210> 785

<211> 517

<212> PRT

<213> Homo sapiens

<400> 785

Gly	Lys	Arg	Glu	Gly	Ala	Gly	Glu	Arg	Asp	Gln	Gly	Arg	Arg	Arg	Gly
1				5				10						15	

Glu	Ser	Arg	Glu	Gly	Trp	Ser	Phe	Gly	Glu	Ser	Leu	Trp	Lys	Met	Ala
		20						25					30		

Pro	Val	Val	Thr	Gly	Lys	Phe	Gly	Glu	Arg	Pro	Pro	Pro	Lys	Arg	Leu
		35					40						45		

Thr	Arg	Glu	Ala	Met	Arg	Asn	Tyr	Leu	Lys	Glu	Arg	Gly	Asp	Gln	Thr
	50					55					60				

Val	Leu	Ile	Leu	His	Ala	Lys	Val	Ala	Gln	Lys	Ser	Tyr	Gly	Asn	Glu
65					70					75					80

Lys	Arg	Phe	Phe	Cys	Pro	Pro	Pro	Cys	Val	Tyr	Leu	Met	Gly	Ser	Gly
				85					90					95	

Trp	Lys	Lys	Lys	Lys	Glu	Gln	Met	Glu	Arg	Asp	Gly	Cys	Ser	Glu	Gln
				100				105					110		

Glu	Ser	Gln	Pro	Cys	Ala	Phe	Ile	Gly	Ile	Gly	Asn	Ser	Asp	Gln	Glu
		115					120					125			

830

Met	Gln	Gln	Leu	Asn	Leu	Glu	Gly	Lys	Asn	Tyr	Cys	Thr	Ala	Lys	Thr	130	135	140
Leu	Tyr	Ile	Ser	Asp	Ser	Asp	Lys	Arg	Lys	His	Phe	Met	Leu	Ser	Val	145	150	155
Lys	Met	Phe	Tyr	Gly	Asn	Ser	Asp	Asp	Ile	Gly	Val	Phe	Leu	Ser	Lys	165	170	175
Arg	Ile	Lys	Val	Ile	Ser	Lys	Pro	Ser	Lys	Lys	Lys	Gln	Ser	Leu	Lys	180	185	190
Asn	Ala	Asp	Leu	Cys	Ile	Ala	Ser	Gly	Thr	Lys	Val	Ala	Leu	Phe	Asn	195	200	205
Arg	Leu	Arg	Ser	Gln	Thr	Val	Ser	Thr	Arg	Tyr	Leu	His	Val	Glu	Gly	210	215	220
Gly	Asn	Phe	His	Ala	Ser	Ser	Gln	Gln	Trp	Gly	Ala	Phe	Phe	Ile	His	225	230	235
Leu	Leu	Asp	Asp	Asp	Glu	Ser	Glu	Gly	Glu	Glu	Phe	Thr	Val	Arg	Asp	245	250	255
Gly	Tyr	Ile	His	Tyr	Gly	Gln	Thr	Val	Lys	Leu	Val	Cys	Ser	Val	Thr	260	265	270
Gly	Met	Ala	Leu	Pro	Arg	Leu	Ile	Ile	Arg	Lys	Val	Asp	Lys	Gln	Thr	275	280	285
Ala	Leu	Leu	Asp	Ala	Asp	Asp	Pro	Val	Ser	Gln	Leu	His	Lys	Cys	Ala	290	295	300
Phe	Tyr	Leu	Lys	Asp	Thr	Glu	Arg	Met	Tyr	Leu	Cys	Leu	Ser	Gln	Glu	305	310	315
Arg	Ile	Ile	Gln	Phe	Gln	Ala	Thr	Pro	Cys	Pro	Lys	Glu	Pro	Asn	Lys	325	330	335
Glu	Met	Ile	Asn	Asp	Gly	Ala	Ser	Trp	Thr	Ile	Ile	Ser	Thr	Asp	Lys	340	345	350
Ala	Glu	Tyr	Thr	Phe	Tyr	Glu	Gly	Met	Gly	Pro	Val	Leu	Ala	Pro	Val	355	360	365
Thr	Pro	Val	Pro	Val	Val	Glu	Ser	Leu	Gln	Leu	Asn	Gly	Gly	Gly	Asp	370	375	380
Val	Ala	Met	Leu	Glu	Leu	Thr	Gly	Gln	Asn	Phe	Thr	Pro	Asn	Leu	Arg	385	390	395
																		400

831

Val	Trp	Phe	Gly	Asp	Val	Glu	Ala	Glu	Thr	Met	Tyr	Arg	Cys	Gly	Glu
				405								415			
Ser	Met	Leu	Cys	Val	Val	Pro	Asp	Ile	Ser	Ala	Phe	Arg	Glu	Gly	Trp
				420								430			
Arg	Trp	Val	Arg	Gln	Pro	Val	Gln	Val	Pro	Val	Thr	Leu	Val	Arg	Asn
				435								445			
Asp	Gly	Ile	Ile	Tyr	Ser	Thr	Ser	Leu	Thr	Phe	Thr	Tyr	Thr	Pro	Glu
				450								460			
Pro	Gly	Pro	Arg	Pro	His	Cys	Ser	Ala	Ala	Gly	Ala	Ile	Leu	Arg	Ala
465				470				475				480			
Asn	Ser	Ser	Gln	Val	Pro	Pro	Asn	Glu	Ser	Asn	Thr	Asn	Ser	Glu	Gly
				485								495			
Ser	Tyr	Thr	Asn	Ala	Ser	Thr	Asn	Ser	Thr	Ser	Val	Thr	Ser	Ser	Thr
				500								510			
Ala	Thr	Val	Val	Ser											
515															

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<210> 786
<211> 211
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (199)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<400> 786
Pro Cys Ile Leu Gly Val Glu Arg Arg Met Glu Thr Glu Ser Gly Asn
 1             5             10             15
Gln Glu Lys Val Met Glu Glu Glu Ser Thr Glu Lys Lys Lys Glu Val
      20             25             30
Glu Lys Lys Lys Arg Ser Arg Val Lys Gln Val Leu Ala Asp Ile Ala
      35             40             45
```

832

Lys Gln Val Asp Phe Trp Phe Gly Asp Ala Asn Leu His Lys Asp Arg
 50 55 60

Phe Leu Arg Glu Gln Ile Glu Lys Ser Arg Asp Gly Tyr Val Asp Ile
 65 70 75 80

Ser Leu Leu Val Ser Phe Asn Lys Met Lys Lys Leu Thr Thr Asp Gly
 85 90 95

Lys Leu Ile Ala Arg Ala Leu Arg Ser Ser Ala Val Val Glu Leu Asp
 100 105 110

Leu Glu Gly Thr Arg Ile Arg Arg Lys Xaa Pro Leu Gly Glu Arg Pro
 115 120 125

Lys Asp Glu Asp Glu Arg Thr Val Tyr Val Glu Leu Leu Pro Lys Asn
 130 135 140

Val Asn His Ser Trp Ile Glu Arg Val Phe Gly Lys Cys Gly Asn Val
 145 150 155 160

Val Tyr Ile Ser Ile Pro His Tyr Lys Ser Thr Gly Asp Pro Lys Gly
 165 170 175

Phe Ala Phe Val Glu Phe Glu Thr Lys Glu Gln Ala Ala Lys Ala Ile
 180 185 190

Glu Val Ser Pro Asp Pro Xaa Lys Lys Lys Arg Lys Lys Arg Lys Gln
 195 200 205

Val Leu Lys
 210

<210> 787

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

833

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 787

His	Ser	Arg	Gly	Val	Ala	Gly	Thr	Ile	Thr	Leu	Phe	Arg	Xaa	Ser	Tyr
1				5					10					15	

Ser	Ser	Ala	Val	Xaa	Xaa	Ser	Gln	Leu	Leu	His	Gln	Met	Arg	Phe	Phe
			20					25					30		

Cys	Ser	Leu	Met	Phe	Phe	Gly	Tyr	Gly	Tyr	Gly	Ile	Cys	Arg	Leu	Gly
		35					40					45			

Gly	Lys	Glu	Leu	Lys	Ile	Thr	Gly	Ala	Gly
	50					55			

<210> 788

<211> 471

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (448)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 788

Asn	Asp	Leu	Thr	Tyr	Asp	Met	Glu	Ile	Leu	Gln	Pro	Leu	Leu	Glu	Gln
1				5					10					15	

Gly	Ala	Ser	Leu	Arg	Gln	Thr	Met	Thr	Tyr	Glu	Gln	Pro	Lys	Glu	Ala
			20					25					30		

Ile	Val	Ile	Arg	Lys	Lys	Ile	Glu	Asn	Leu	Thr	Ser	Ala	Val	Asn	Ser
		35					40					45			

Leu	Asn	Phe	Ile	Ile	Lys	Glu	Leu	Thr	Lys	Arg	His	Asn	Leu	Leu	Arg
	50					55				60					

Asn	Glu	Val	Gln	Gly	Arg	Asp	Asp	Ala	Leu	Glu	Arg	Arg	Ile	Asn	Glu
	65				70					75				80	

Tyr	Ala	Leu	Glu	Met	Glu	Asp	Gly	Leu	Asn	Lys	Thr	Met	Thr	Ile	Ile
				85					90					95	

Asn	Asn	Ala	Ile	Asp	Phe	Ile	Gln	Asp	Asn	Tyr	Ala	Leu	Lys	Glu	Thr
		100						105					110		

834

Leu	Ser	Thr	Ile	Lys	Asp	Asn	Ser	Glu	Ile	His	His	Lys	Cys	Thr	Ser	115	120	125
Asp	Met	Glu	Thr	Ile	Leu	Thr	Phe	Ile	Pro	Gln	Phe	His	Arg	Leu	Asn	130	135	140
Asp	Ser	Ile	Gln	Thr	Leu	Val	Asn	Asp	Asn	Gln	Arg	Tyr	Asn	Phe	Val	145	150	155
Leu	Gln	Val	Ala	Lys	Thr	Leu	Ala	Gly	Ile	Pro	Arg	Asp	Glu	Lys	Leu	165	170	175
Asn	Gln	Ser	Asn	Phe	Gln	Lys	Met	Tyr	Gln	Met	Phe	Asn	Glu	Thr	Thr	180	185	190
Ser	Gln	Val	Arg	Lys	Tyr	Gln	Gln	Asn	Met	Ser	His	Leu	Glu	Glu	Lys	195	200	205
Leu	Leu	Leu	Thr	Thr	Lys	Ile	Ser	Lys	Asn	Phe	Glu	Thr	Arg	Leu	Gln	210	215	220
Asp	Ile	Glu	Ser	Lys	Val	Thr	Gln	Thr	Leu	Ile	Pro	Tyr	Tyr	Ile	Ser	225	230	235
Val	Lys	Lys	Gly	Ser	Val	Val	Thr	Asn	Glu	Arg	Asp	Gln	Ala	Leu	Gln	245	250	255
Leu	Gln	Val	Leu	Asn	Ser	Arg	Phe	Lys	Ala	Leu	Glu	Ala	Lys	Ser	Ile	260	265	270
His	Leu	Ser	Ile	Asn	Phe	Phe	Ser	Leu	Asn	Lys	Thr	Leu	His	Glu	Val	275	280	285
Leu	Thr	Met	Cys	His	Asn	Ala	Ser	Thr	Ser	Val	Ser	Glu	Leu	Asn	Ala	290	295	300
Thr	Ile	Pro	Lys	Trp	Ile	Lys	His	Ser	Leu	Pro	Asp	Ile	Gln	Leu	Leu	305	310	315
Gln	Lys	Gly	Leu	Thr	Glu	Phe	Val	Glu	Pro	Ile	Ile	Gln	Ile	Lys	Thr	325	330	335
Gln	Ala	Ala	Leu	Ser	Asn	Leu	Thr	Cys	Cys	Ile	Asp	Arg	Ser	Leu	Pro	340	345	350
Gly	Ser	Leu	Ala	Asn	Val	Val	Lys	Ser	Gln	Lys	Gln	Val	Lys	Ser	Leu	355	360	365
Pro	Lys	Lys	Ile	Asn	Ala	Leu	Lys	Lys	Pro	Thr	Val	Asn	Leu	Thr	Thr	370	375	380

835

Val Leu Ile Gly Arg Thr Gln Arg Asn Thr Asp Asn Ile Ile Tyr Pro
 385 390 395 400

Glu Glu Tyr Ser Ser Cys Ser Arg His Pro Cys Gln Asn Gly Gly Thr
 405 410 415

Cys Ile Asn Gly Arg Thr Ser Phe Thr Cys Ala Cys Arg His Pro Phe
 420 425 430

Thr Gly Asp Asn Cys Thr Ile Lys Leu Val Glu Glu Asn Ala Leu Xaa
 435 440 445

Gln Ile Phe Pro Lys Asp Leu Thr Asp Met His Pro Trp Trp His Phe
 450 455 460

Leu His Leu Ile Arg Met Glu
 465 470

<210> 789

<211> 328

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

836

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (312)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (319)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 789

His	Gly	Val	His	Gly	Gly	Gly	Asp	Arg	Gly	Phe	Ala	Leu	Gly	Gly	His
1				5					10					15	

Glu	Arg	Glu	Pro	Ala	Ser	Gly	Arg	Pro	Gly	Ala	Lys	Xaa	Leu	His	Leu
			20					25					30		

Leu	Leu	Val	Ala	Glu	Pro	His	Gly	Gln	Glu	Asp	His	Ala	Gly	Gln	Gly
		35					40					45			

Glu	Asp	Pro	Arg	Glu	Val	Arg	Ala	Arg	Val	Gly	Ala	Ala	Ala	Ala	Arg
	50					55					60				

Ala	Xaa	Asp	Glu	Ile	Ile	Asp	Arg	Cys	Leu	Val	Gly	Pro	Arg	Ala	Pro
65					70					75					80

Ala	Pro	Arg	Asp	Pro	Gly	Asp	Ser	Glu	Glu	Leu	Thr	Arg	Phe	Pro	Gly
			85						90					95	

Leu	Arg	Gly	Pro	Thr	Gly	Gln	Lys	Val	Val	Arg	Phe	Gly	Asp	Glu	Asp
		100					105						110		

Leu	Thr	Trp	Gln	Asp	Glu	His	Ser	Ala	Pro	Phe	Ser	Xaa	Gly	Lys	Gln
	115						120					125			

Arg	Xaa	Arg	Leu	Glu	Phe	Xaa	Ile	Ser	Ala	Leu	Ser	Ile	Gln	Glu	Pro
	130					135					140				

Ser	Asn	Gly	Thr	Ala	Leu	Ser	Xaa	Pro	Arg	Pro	Leu	Ser	Lys	Ala	Ser
145					150					155				160	

Gln	Gly	Ser	Gln	Ala	Leu	Lys	Ser	Ser	Gln	Gly	Ser	Arg	Ser	Ser	Ser
			165						170					175	

Leu	Asp	Ala	Leu	Gly	Pro	Thr	Arg	Lys	Glu	Glu	Glu	Ala	Ser	Phe	Trp
		180						185						190	

837

Lys Ile Asn Ala Glu Arg Ser Arg Gly Glu Gly Pro Glu Ala Glu Phe
 195 200 205
 Gln Ser Leu Thr Pro Ser Gln Ile Lys Ser Met Glu Lys Gly Glu Lys
 210 215 220
 Val Leu Pro Pro Cys Tyr Arg Gln Glu Pro Ala Pro Lys Asp Arg Glu
 225 230 235 240
 Ala Lys Val Glu Arg Pro Ser Thr Leu Arg Gln Glu Gln Arg Pro Leu
 245 250 255
 Pro Asn Val Ser Thr Glu Arg Glu Arg Pro Gln Pro Val Gln Ala Phe
 260 265 270
 Ser Ser Ala Leu His Glu Ala Ala Pro Ser Gln Leu Glu Gly Lys Leu
 275 280 285
 Pro Ser Pro Asp Val Arg Gln Asp Asp Gly Glu Asp Thr Leu Phe Ser
 290 295 300
 Glu Pro Lys Phe Ala Gln Val Xaa Ser Ser Asn Val Val Leu Xaa Thr
 305 310 315 320
 Gly Phe Asp Phe Leu Asp Asn Trp
 325

<210> 790

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 790

Ala Ala Glu Ala Arg Ala Arg Pro Gly Val Thr Leu Arg Pro Phe Ala
 1 5 10 15
 Pro Leu Ser Gly Ala Ala Glu Ala Asp Glu Gly Gly Gly Asp Trp Ser
 20 25 30
 Xaa Ile Asp Cys Glu Met Glu Glu Val Asp Leu Gln Asp Leu Pro Ser
 35 40 45
 Ala Thr Ile Ala Cys His Leu Asp Pro Arg Val Phe Val Asp Gly Leu

838

50 55 60
 Cys Arg Ala Lys Phe Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Ile
 65 70 75 80
 Thr Phe Gln Tyr Phe Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser
 85 90 95
 Asn Pro Phe Ser Ala Ala Asp Ala Arg Leu Gln Leu His Lys Thr Glu
 100 105 110
 Phe Leu Gly Lys Glu Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile
 115 120 125
 Gly Ser Ser His Leu Ala Pro Gln Ile Gln Thr Ser Ser Phe
 130 135 140

<210> 791
 <211> 322
 <212> PRT
 <213> Homo sapiens

<400> 791
 Ala Gly Gly Pro Arg Ala Ala His Pro Val Cys Leu Cys Leu Leu Gln
 1 5 10 15
 Ser Ser Val Leu Ala Leu Val Arg Leu Arg Pro Gly Cys Thr Ala Gly
 20 25 30
 Thr Trp Ala Met Ser Pro His Pro Thr Ala Leu Leu Gly Leu Val Leu
 35 40 45
 Cys Leu Ala Gln Thr Ile His Thr Gln Glu Glu Asp Leu Pro Arg Pro
 50 55 60
 Ser Ile Ser Ala Glu Pro Gly Thr Val Ile Pro Leu Gly Ser His Val
 65 70 75 80
 Thr Phe Val Cys Arg Gly Pro Val Gly Val Gln Thr Phe Arg Leu Glu
 85 90 95
 Arg Glu Ser Arg Ser Thr Tyr Asn Asp Thr Glu Asp Val Ser Gln Ala
 100 105 110
 Ser Pro Ser Glu Ser Glu Ala Arg Phe Arg Ile Asp Ser Val Ser Glu
 115 120 125
 Gly Asn Ala Gly Pro Tyr Arg Cys Ile Tyr Tyr Lys Pro Pro Lys Trp
 130 135 140

839

Ser Glu Gln Ser Asp Tyr Leu Glu Leu Leu Val Lys Glu Thr Ser Gly
 145 150 155 160
 Gly Pro Asp Ser Pro Asp Thr Glu Pro Gly Ser Ser Ala Gly Pro Thr
 165 170 175
 Gln Arg Pro Ser Asp Asn Ser His Asn Glu His Ala Pro Ala Ser Gln
 180 185 190
 Gly Leu Lys Ala Glu His Leu Tyr Ile Leu Ile Gly Val Ser Val Val
 195 200 205
 Phe Leu Phe Cys Leu Leu Leu Leu Val Leu Phe Cys Leu His Arg Gln
 210 215 220
 Asn Gln Ile Lys Gln Gly Pro Pro Arg Ser Lys Asp Glu Glu Gln Lys
 225 230 235 240
 Pro Gln Gln Arg Pro Asp Leu Ala Val Asp Val Leu Glu Arg Thr Ala
 245 250 255
 Asp Lys Ala Thr Val Asn Gly Leu Pro Glu Lys Asp Arg Glu Thr Asp
 260 265 270
 Thr Ser Ala Leu Ala Ala Gly Ser Ser Gln Glu Val Thr Tyr Ala Gln
 275 280 285
 Leu Asp His Trp Ala Leu Thr Gln Arg Thr Ala Arg Ala Val Ser Pro
 290 295 300
 Gln Ser Thr Lys Pro Met Ala Glu Ser Ile Thr Tyr Ala Ala Val Ala
 305 310 315 320

Arg His

<210> 792

<211> 97

<212> PRT

<213> Homo sapiens

<400> 792

Pro Leu Leu Cys Leu Pro Ser Ile Met Lys Gly Leu Ala Ala Ala Leu
 1 5 10 15

Leu Val Leu Val Cys Thr Met Ala Leu Cys Ser Cys Ala Gln Val Gly
 20 25 30

840

Thr Asn Lys Glu Leu Cys Cys Leu Val Tyr Thr Ser Trp Gln Ile Pro
 35 40 45

Gln Lys Phe Ile Val Asp Tyr Ser Glu Thr Ser Pro Gln Cys Pro Lys
 50 55 60

Pro Gly Val Ile Leu Leu Thr Lys Arg Gly Arg Gln Ile Cys Ala Asp
 65 70 75 80

Pro Asn Lys Lys Trp Val Gln Lys Tyr Ile Ser Asp Leu Lys Leu Asn
 85 90 95

Ala

<210> 793
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 793
 Pro Pro Gly Leu Pro Gly Phe Gly Thr Ser His Thr Phe Ala Pro Ala
 1 5 10 15

Ala Met Thr Leu Ser Pro Leu Leu Leu Phe Leu Pro Pro Leu Leu Leu
 20 25 30

Leu Leu Asp Val Pro Thr Ala Ala Val Gln Ala Ser Pro Leu Gln Ala
 35 40 45

Leu Asp Phe Phe Gly Asn Gly Pro Pro Val Asn Tyr Lys Thr Gly Asn
 50 55 60

Leu Tyr Leu Arg Gly Pro Leu Lys Lys Ser Asn Ala Pro Leu Val Asn
 65 70 75 80

Val Thr Leu Tyr Tyr Glu Ala Leu Cys Gly Gly Cys Arg Ala Phe Leu
 85 90 95

Ile Arg Glu Leu Phe Pro Thr Trp Leu Leu Val Met Glu Ile Leu Asn
 100 105 110

Val Thr Leu Val Pro Tyr Gly Asn Ala Gln Glu Gln Asn Val Ser Gly
 115 120 125

Arg Trp Glu Phe Lys Cys Gln His Gly Glu Glu Glu Cys Lys Phe Asn
 130 135 140

Lys Val Glu Ala Cys Val Leu Asp Glu Leu Asp Met Glu Leu Ala Phe

145	150								155				160			
Leu	Thr	Ile	Val	Cys	Met	Glu	Glu	Phe	Glu	Asp	Met	Glu	Arg	Ser	Leu	
				165					170					175		
Pro	Leu	Cys	Leu	Gln	Leu	Tyr	Ala	Pro	Gly	Leu	Ser	Pro	Asp	Thr	Ile	
			180					185					190			
Met	Glu	Cys	Ala	Met	Gly	Asp	Arg	Gly	Met	Gln	Leu	Met	His	Ala	Asn	
		195					200					205				
Ala	Gln	Arg	Thr	Asp	Ala	Leu	Gln	Pro	Pro	His	Glu	Tyr	Val	Pro	Trp	
	210					215					220					
Val	Thr	Val	Asn	Gly	Lys	Pro	Leu	Glu	Asp	Gln	Thr	Gln	Leu	Leu	Thr	
225					230					235					240	
Leu	Val	Cys	Gln	Leu	Tyr	Gln	Gly	Lys	Lys	Pro	Asp	Val	Cys	Pro	Ser	
				245					250					255		
Ser	Thr	Ser	Ser	Leu	Arg	Ser	Val	Cys	Phe	Lys						
			260					265								

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<210> 794
<211> 297
<212> PRT
<213> Homo sapiens
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<400> 794
Gln Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Ala Ser
 1          5          10          15
Thr Arg Pro Gln Phe Leu Ile Thr Val Pro Val Leu Thr Val Ile Asn
          20          25          30
Tyr Arg Pro His Asn Met Arg Pro Glu Asp Arg Met Phe His Ile Arg
          35          40          45
Ala Val Ile Leu Arg Ala Leu Ser Leu Ala Phe Leu Leu Ser Leu Arg
          50          55          60
Gly Ala Gly Ala Ile Lys Ala Asp His Val Ser Thr Tyr Ala Ala Phe
 65          70          75          80
Val Gln Thr His Arg Pro Thr Gly Glu Phe Met Phe Glu Phe Asp Glu
          85          90          95
Asp Glu Met Phe Tyr Val Asp Leu Asp Lys Lys Glu Thr Val Trp His
          100          105          110

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842

Leu Glu Glu Phe Gly Gln Ala Phe Ser Phe Glu Ala Gln Gly Gly Leu
 115 120 125
 Ala Asn Ile Ala Ile Leu Asn Asn Asn Leu Asn Thr Leu Ile Gln Arg
 130 135 140
 Ser Asn His Thr Gln Ala Thr Asn Asp Pro Pro Glu Val Thr Val Phe
 145 150 155 160
 Pro Lys Glu Pro Val Glu Leu Gly Gln Pro Asn Thr Leu Ile Cys His
 165 170 175
 Ile Asp Lys Phe Phe Pro Pro Val Leu Asn Val Thr Trp Leu Cys Asn
 180 185 190
 Gly Glu Leu Val Thr Glu Gly Val Ala Glu Ser Leu Phe Leu Pro Arg
 195 200 205
 Thr Asp Tyr Ser Phe His Lys Phe His Tyr Leu Thr Phe Val Pro Ser
 210 215 220
 Ala Glu Asp Phe Tyr Asp Cys Arg Val Glu His Trp Gly Leu Asp Gln
 225 230 235 240
 Pro Leu Leu Lys His Trp Glu Ala Gln Glu Pro Ile Gln Met Pro Glu
 245 250 255
 Thr Thr Glu Thr Val Leu Cys Ala Leu Gly Leu Val Leu Gly Leu Val
 260 265 270
 Gly Ile Ile Val Gly Thr Val Leu Ile Ile Lys Ser Leu Arg Ser Gly
 275 280 285
 His Asp Pro Arg Ala Gln Gly Thr Leu
 290 295

<210> 795

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

843

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 795

Ile	Gly	Trp	Glu	Val	Ser	Phe	Trp	Ile	Cys	Phe	Glu	Thr	Val	Pro	Glu
1				5				10					15		

Arg	Arg	Leu	Pro	Phe	Pro	Arg	His	Phe	His	Arg	Gln	Gln	Phe	Gly	Asp
		20					25						30		

Ser	Phe	Ala	Ala	Lys	Tyr	Xaa	Leu	Val	Asn	Tyr	Phe	Pro	Ala	Gln	Arg
		35					40					45			

Leu	Arg	Ala	Lys	Gln	Gln	Met	Arg	Val	Ser	Val	Pro	Xaa	Lys	Ser	Glu
	50					55					60				

Asp	Val	Ala	Ile	Glu	Arg	Thr	Val	Phe	Ser	Tyr	Val	Ser	Arg	Leu	Ser
	65				70					75				80	

Tyr	Ala	Thr	Val	Ser	Lys	Pro	Ala	Pro	Thr	Val	Arg	Lys	Cys	Val	Arg
				85					90					95	

His	Arg	Thr	Gln	Leu	Ala	Met	Cys	Phe	Leu	Ser	Gln	Gly	Asp	Thr	Cys
			100					105					110		

Ile

<210> 796

<211> 415

<212> PRT

<213> Homo sapiens

<400> 796

Lys	Met	Ser	Glu	Tyr	Ile	Arg	Val	Thr	Glu	Asp	Glu	Asn	Asp	Glu	Pro
1				5				10					15		

Ile	Glu	Ile	Pro	Ser	Glu	Asp	Asp	Gly	Thr	Val	Leu	Leu	Ser	Thr	Val
			20					25					30		

Thr	Ala	Gln	Phe	Pro	Gly	Ala	Cys	Gly	Leu	Arg	Tyr	Arg	Asn	Pro	Val
		35					40					45			

Ser	Gln	Cys	Met	Arg	Gly	Val	Arg	Leu	Val	Glu	Gly	Ile	Leu	His	Ala
	50					55					60				

Pro	Asp	Ala	Gly	Trp	Gly	Asn	Leu	Val	Tyr	Val	Val	Asn	Tyr	Pro	Lys
	65				70					75				80	

844

Asp	Asn	Lys	Arg	Lys	Met	Asp	Glu	Thr	Asp	Ala	Ser	Ser	Ala	Val	Lys	85	90	95
Val	Lys	Arg	Ala	Val	Gln	Lys	Thr	Ser	Asp	Leu	Ile	Val	Leu	Gly	Leu	100	105	110
Pro	Trp	Lys	Thr	Thr	Glu	Gln	Asp	Leu	Lys	Glu	Tyr	Phe	Ser	Thr	Phe	115	120	125
Gly	Glu	Val	Leu	Met	Val	Gln	Val	Lys	Lys	Asp	Leu	Lys	Thr	Gly	His	130	135	140
Ser	Lys	Gly	Phe	Gly	Phe	Val	Arg	Phe	Thr	Glu	Tyr	Glu	Thr	Gln	Val	145	150	155
Lys	Val	Met	Ser	Gln	Arg	His	Met	Ile	Asp	Gly	Arg	Trp	Cys	Asp	Cys	165	170	175
Lys	Leu	Pro	Asn	Ser	Lys	Gln	Ser	Gln	Asp	Glu	Pro	Leu	Arg	Ser	Arg	180	185	190
Lys	Val	Phe	Val	Gly	Arg	Cys	Thr	Glu	Asp	Met	Thr	Glu	Asp	Glu	Leu	195	200	205
Arg	Glu	Phe	Phe	Ser	Gln	Tyr	Gly	Asp	Val	Met	Asp	Val	Phe	Ile	Pro	210	215	220
Lys	Pro	Phe	Arg	Ala	Phe	Ala	Phe	Val	Thr	Phe	Ala	Asp	Asp	Gln	Ile	225	230	235
Ala	Gln	Ser	Leu	Cys	Gly	Glu	Asp	Leu	Ile	Ile	Lys	Gly	Ile	Ser	Val	245	250	255
His	Ile	Ser	Asn	Ala	Glu	Pro	Lys	His	Asn	Ser	Asn	Arg	Gln	Leu	Glu	260	265	270
Arg	Ser	Gly	Arg	Phe	Gly	Gly	Asn	Pro	Gly	Gly	Phe	Gly	Asn	Gln	Gly	275	280	285
Gly	Phe	Gly	Asn	Ser	Arg	Gly	Gly	Gly	Ala	Gly	Leu	Gly	Asn	Asn	Gln	290	295	300
Gly	Ser	Asn	Met	Gly	Gly	Gly	Met	Asn	Phe	Gly	Ala	Phe	Ser	Ile	Asn	305	310	315
Pro	Ala	Met	Met	Ala	Ala	Ala	Gln	Ala	Ala	Leu	Gln	Ser	Ser	Trp	Gly	325	330	335
Met	Met	Gly	Met	Leu	Ala	Ser	Gln	Gln	Asn	Gln	Ser	Gly	Pro	Ser	Gly	340	345	350

845

Asn Asn Gln Asn Gln Gly Asn Met Gln Arg Glu Pro Asn Gln Ala Phe
355 360 365

Gly Ser Gly Asn Asn Ser Tyr Ser Gly Ser Asn Ser Gly Ala Ala Ile
370 375 380

Gly Trp Gly Ser Ala Ser Asn Ala Gly Ser Gly Ser Gly Phe Asn Gly
385 390 395 400

Gly Phe Gly Ser Ser Met Asp Ser Lys Ser Ser Gly Trp Gly Met
405 410 415

<210> 797
<211> 609
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (446)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (506)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (577)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (583)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (584)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

846

<222> (599)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (608)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 797

Leu	Thr	Ala	Leu	Arg	Trp	Leu	Leu	Arg	Gly	Gln	Glu	Lys	Arg	Thr	Leu
1				5					10					15	

Gly	Ser	Ser	Gln	Ser	Asp	Phe	Leu	Thr	Pro	Pro	Val	Gly	Gly	Ala	Pro
			20					25					30		

Trp	Ala	Val	Ala	Thr	Thr	Val	Val	Met	Tyr	Pro	Pro	Pro	Pro	Pro	Pro
		35					40					45			

Pro	His	Arg	Asp	Phe	Ile	Ser	Val	Thr	Leu	Ser	Phe	Gly	Glu	Ser	Tyr
	50					55					60				

Asp	Asn	Ser	Lys	Ser	Trp	Arg	Arg	Arg	Ser	Cys	Trp	Arg	Lys	Trp	Lys
65					70					75					80

Gln	Leu	Ser	Arg	Leu	Gln	Arg	Asn	Met	Ile	Leu	Phe	Leu	Leu	Ala	Phe
				85					90					95	

Leu	Leu	Phe	Cys	Gly	Leu	Leu	Phe	Tyr	Ile	Asn	Leu	Ala	Asp	His	Trp
			100					105					110		

Lys	Ala	Leu	Ala	Phe	Arg	Leu	Glu	Glu	Glu	Gln	Lys	Met	Arg	Pro	Glu
		115					120					125			

Ile	Ala	Gly	Leu	Lys	Pro	Ala	Asn	Pro	Pro	Val	Leu	Pro	Ala	Pro	Gln
	130					135					140				

Lys	Ala	Asp	Thr	Asp	Pro	Glu	Asn	Leu	Pro	Glu	Ile	Ser	Ser	Gln	Lys
145					150					155					160

Thr	Gln	Arg	His	Ile	Gln	Arg	Gly	Pro	Xaa	His	Leu	Gln	Ile	Arg	Pro
				165					170					175	

Pro	Ser	Gln	Asp	Leu	Lys	Asp	Gly	Thr	Gln	Glu	Glu	Ala	Thr	Lys	Arg
			180					185					190		

Gln	Glu	Ala	Pro	Val	Asp	Pro	Arg	Pro	Glu	Gly	Asp	Pro	Gln	Arg	Thr
		195					200					205			

Val	Ile	Ser	Trp	Arg	Gly	Ala	Val	Ile	Glu	Pro	Glu	Gln	Gly	Thr	Glu
	210					215					220				

847

Leu Pro Ser Arg Arg Ala Glu Val Pro Thr Lys Pro Pro Leu Pro Pro
 225 230 235 240
 Ala Arg Thr Gln Gly Thr Pro Val His Leu Asn Tyr Arg Gln Lys Gly
 245 250 255
 Val Ile Asp Val Phe Leu His Ala Trp Lys Gly Tyr Arg Lys Phe Ala
 260 265 270
 Trp Gly His Asp Glu Leu Lys Pro Val Ser Arg Ser Phe Ser Glu Trp
 275 280 285
 Phe Gly Leu Gly Leu Thr Leu Ile Asp Ala Leu Asp Thr Met Trp Ile
 290 295 300
 Leu Gly Leu Arg Lys Glu Phe Glu Glu Ala Arg Lys Trp Val Ser Lys
 305 310 315 320
 Lys Leu His Phe Glu Lys Asp Val Asp Val Asn Leu Phe Glu Ser Thr
 325 330 335
 Ile Arg Ile Leu Gly Gly Leu Leu Ser Ala Tyr His Leu Ser Gly Asp
 340 345 350
 Ser Leu Phe Leu Arg Lys Ala Glu Asp Phe Gly Asn Arg Leu Met Pro
 355 360 365
 Ala Phe Arg Thr Pro Ser Lys Ile Pro Tyr Ser Asp Val Asn Ile Gly
 370 375 380
 Thr Gly Val Ala His Pro Pro Arg Trp Thr Ser Asp Ser Thr Val Ala
 385 390 395 400
 Glu Val Thr Ser Ile Gln Leu Glu Phe Arg Glu Leu Ser Arg Leu Thr
 405 410 415
 Gly Asp Lys Lys Phe Gln Glu Ala Val Glu Lys Val Thr Gln His Ile
 420 425 430
 His Gly Leu Ser Gly Lys Lys Asp Gly Leu Val Pro Cys Xaa Ile Asn
 435 440 445
 Thr His Ser Gly Leu Phe Thr His Leu Gly Val Phe Thr Leu Gly Ala
 450 455 460
 Arg Ala Asp Ser Tyr Tyr Glu Tyr Leu Leu Lys Gln Trp Ile Gln Gly
 465 470 475 480
 Gly Lys Gln Glu Thr Gln Leu Leu Glu Asp Tyr Val Glu Ala Ile Glu
 485 490 495

848

Gly Val Arg Thr His Leu Leu Arg His Xaa Glu Pro Ser Lys Leu Thr
 500 505 510
 Phe Val Gly Glu Leu Ala His Gly Arg Phe Ser Ala Lys Met Asp His
 515 520 525
 Leu Val Cys Phe Leu Pro Gly Thr Leu Ala Leu Gly Val Tyr His Gly
 530 535 540
 Leu Pro Ala Ser His Met Glu Leu Ala Gln Glu Leu Met Glu Thr Cys
 545 550 555 560
 Tyr Gln Met Asn Arg Gln Met Glu Thr Gly Leu Ser Pro Glu Ile Val
 565 570 575
 Xaa Phe Asn Phe Thr Pro Xaa Xaa Pro Gly Gly Pro Gly Ser Gly Gly
 580 585 590
 Asn Arg Leu Gly Lys Gly Xaa Pro Lys Arg Ala Pro Lys Gly Pro Xaa
 595 600 605

Glu

<210> 798

<211> 106

<212> PRT

<213> Homo sapiens

<400> 798

Leu Leu Pro His Pro Gly Arg Met Leu Thr Phe Met Glu Ala Asp Met
 1 5 10 15
 Cys Thr Gln Asn Gln Arg Glu Pro Val Ile Leu Ser Trp Arg Ser Gln
 20 25 30
 Lys Thr Ser Ala Tyr Ser Ser Phe Arg Trp Met Ala Gln Glu Ser Ser
 35 40 45
 Glu Pro Met Gly Asp Leu Ile Tyr Tyr His Ile Arg Leu Leu Gly Met
 50 55 60
 Asn Ile Cys Val Ile Phe Pro Asn Asp Leu Thr Leu Phe Tyr Leu Cys
 65 70 75 80
 Ile Gln Phe Leu Cys His Asn Val Leu Phe Cys Phe Ser Phe Ser Ile
 85 90 95
 Val Glu Glu Gly Arg Ser Ser Lys Leu Leu

849

100

105

<210> 799

<211> 114

<212> PRT

<213> Homo sapiens

<400> 799

Cys Asn Leu Ile Gln Ser Asp Tyr Ser Val Ala Leu Pro His Gly Lys
 1 5 10 15

Ser Tyr Phe Phe Arg Ser Lys Lys Leu Asn Ser Met Leu Val Thr Trp
 20 25 30

Phe Gln Leu Glu Phe Ser Phe Asn Val Asn Lys Ile Glu Thr Leu Val
 35 40 45

Phe Ser Gly Glu Trp Lys Glu Leu Pro Leu Leu Gln Val Met Lys Pro
 50 55 60

Asp Leu Ile Met Lys Leu Leu Asn His Ser Ser Cys Val Gln Asn Tyr
 65 70 75 80

Cys Phe Phe Cys Leu Phe Phe Leu Phe Val Thr Val Tyr Ile Lys Ile
 85 90 95

Leu Glu Asp Ala Leu Leu Cys Lys Lys Lys Lys Lys Lys Lys Arg
 100 105 110

Ala Ala

<210> 800

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 800

Asn Ile Ser Ile Arg Arg Glu Tyr Ile Lys Gln Asn Pro Met Ala Thr
 1 5 10 15

Glu Lys Leu Leu Ser Leu Leu Pro Glu Tyr Val Val Pro Tyr Met Ile

20

30

Pro Ala Pro Ser Lys Pro Arg Arg Gly Arg Arg Pro Lys Ser Glu Ser

851

290	295	300
Gln Gly Asn Ala Thr Lys Asn Asp Asp Leu Asn Lys Pro Ile Asn Lys		
305	310	315 320
Gly Arg Lys Arg Ala Ala Val Gly Gln Glu Ser Pro Gly Gly Leu Glu		
	325	330 335
Ala Gly Asn Ala Lys Ala Pro Lys Leu Gln Asp Leu Ala Lys Lys Ala		
	340	345 350
Ala Pro Ala Glu Arg Xaa Ile Asp Leu Gln Arg		
	355	360

<210> 801

<211> 581

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 801

Xaa Ser Ser Asn Thr Thr His Tyr Arg Gly Gly Ser Ala Ser Glu Ala		
1	5	10 15
Ala Met Ser Tyr Pro Ala Asp Asp Tyr Glu Ser Glu Ala Ala Tyr Asp		
	20	25 30
Pro Tyr Ala Tyr Pro Ser Asp Tyr Asp Met His Thr Gly Asp Pro Lys		
	35	40 45
Gln Asp Leu Ala Tyr Glu Arg Gln Tyr Glu Gln Gln Thr Tyr Gln Val		
	50	55 60
Ile Pro Glu Val Ile Lys Asn Phe Ile Gln Tyr Phe His Lys Thr Val		
	65	70 75 80
Ser Asp Leu Ile Asp Gln Lys Val Tyr Glu Leu Gln Ala Ser Arg Val		
	85	90 95
Ser Ser Asp Val Ile Asp Gln Lys Val Tyr Glu Ile Gln Asp Ile Tyr		
	100	105 110
Glu Asn Ser Trp Thr Lys Leu Thr Glu Arg Phe Phe Lys Asn Thr Pro		
	115	120 125

852

Trp Pro Glu Ala Glu Ala Ile Ala Pro Gln Val Gly Asn Asp Ala Val
 130 135 140
 Phe Leu Ile Leu Tyr Lys Glu Leu Tyr Tyr Arg His Ile Tyr Ala Lys
 145 150 155 160
 Val Ser Gly Gly Pro Ser Leu Glu Gln Arg Phe Glu Ser Tyr Tyr Asn
 165 170 175
 Tyr Cys Asn Leu Phe Asn Tyr Ile Leu Asn Ala Asp Gly Pro Ala Pro
 180 185 190
 Leu Glu Leu Pro Asn Gln Trp Leu Trp Asp Ile Ile Asp Glu Phe Ile
 195 200 205
 Tyr Gln Phe Gln Ser Phe Ser Gln Tyr Arg Cys Lys Thr Ala Lys Lys
 210 215 220
 Ser Glu Glu Glu Ile Asp Phe Leu Arg Ser Asn Pro Lys Ile Trp Asn
 225 230 235 240
 Val His Ser Val Leu Asn Val Leu His Ser Leu Val Asp Lys Ser Asn
 245 250 255
 Ile Asn Arg Gln Leu Glu Val Tyr Thr Ser Gly Gly Asp Pro Glu Ser
 260 265 270
 Val Ala Gly Glu Tyr Gly Arg His Ser Leu Tyr Lys Met Leu Gly Tyr
 275 280 285
 Phe Ser Leu Val Gly Leu Leu Arg Leu His Ser Leu Leu Gly Asp Tyr
 290 295 300
 Tyr Gln Ala Ile Lys Val Leu Glu Asn Ile Glu Leu Asn Lys Lys Ser
 305 310 315 320
 Met Tyr Ser Arg Val Pro Glu Cys Gln Val Thr Thr Tyr Tyr Tyr Val
 325 330 335
 Gly Phe Ala Tyr Leu Met Met Arg Arg Tyr Gln Asp Ala Ile Arg Val
 340 345 350
 Phe Ala Asn Ile Leu Leu Tyr Ile Gln Arg Thr Lys Ser Met Phe Gln
 355 360 365
 Arg Thr Thr Tyr Lys Tyr Glu Met Ile Asn Lys Gln Asn Glu Gln Met
 370 375 380
 His Ala Leu Leu Ala Ile Ala Leu Thr Met Tyr Pro Met Arg Ile Asp
 385 390 395 400

853

Glu Ser Ile His Leu Gln Leu Arg Glu Lys Tyr Gly Asp Lys Met Leu
 405 410 415
 Arg Met Gln Lys Gly Asp Pro Gln Val Tyr Glu Glu Leu Phe Ser Tyr
 420 425 430
 Ser Cys Pro Lys Phe Leu Ser Pro Val Val Pro Asn Tyr Asp Asn Val
 435 440 445
 His Pro Asn Tyr His Lys Glu Pro Phe Leu Gln Gln Leu Lys Val Phe
 450 455 460
 Ser Asp Glu Val Gln Gln Gln Ala Gln Leu Ser Thr Ile Arg Ser Phe
 465 470 475 480
 Leu Lys Leu Tyr Thr Thr Met Pro Val Ala Lys Leu Ala Gly Phe Leu
 485 490 495
 Asp Leu Thr Glu Gln Glu Phe Arg Ile Gln Leu Leu Val Phe Lys His
 500 505 510
 Lys Met Lys Asn Leu Val Trp Thr Ser Gly Ile Ser Ala Leu Asp Gly
 515 520 525
 Glu Phe Gln Ser Ala Ser Glu Val Asp Phe Tyr Ile Asp Lys Asp Met
 530 535 540
 Ile His Ile Ala Asp Thr Lys Val Ala Arg Arg Tyr Gly Asp Phe Phe
 545 550 555 560
 Ile Arg Gln Ile His Lys Phe Glu Glu Leu Asn Arg Thr Leu Lys Lys
 565 570 575
 Met Gly Gln Arg Pro
 580

<210> 802

<211> 302

<212> PRT

<213> Homo sapiens

<400> 802

Ala Ser Glu Pro Trp Ala Ser Glu Leu Trp Leu Trp Val Asp Gly Gly
 1 5 10 15
 Asp Thr Pro Arg Arg Arg Arg Glu Gly Arg Arg Gly Leu His Leu
 20 25 30
 His Ala Ser Arg Leu Pro Leu Pro Ser Ala Pro Gly Pro Cys Ser Ser

854

35	40	45
Leu Gln Asp Gln Ala Met Glu Leu Glu Val Arg Arg Val Arg Gln Ala		
50	55	60
Phe Leu Ser Gly Arg Ser Arg Pro Leu Arg Phe Arg Leu Gln Gln Leu		
65	70	75
Glu Ala Leu Arg Arg Met Val Gln Glu Arg Glu Lys Asp Ile Leu Thr		
	85	90
Ala Ile Ala Ala Asp Leu Cys Lys Ser Glu Phe Asn Val Tyr Ser Gln		
	100	105
Glu Val Ile Thr Val Leu Gly Glu Ile Asp Phe Met Leu Glu Asn Leu		
	115	120
Pro Glu Trp Val Thr Ala Lys Pro Val Lys Lys Asn Val Leu Thr Met		
	130	135
Leu Asp Glu Ala Tyr Ile Gln Pro Gln Pro Leu Gly Val Val Leu Ile		
	145	150
Ile Gly Ala Trp Asn Tyr Pro Phe Val Leu Thr Ile Gln Pro Leu Ile		
	165	170
Gly Ala Ile Ala Ala Gly Asn Ala Val Ile Ile Lys Pro Ser Glu Leu		
	180	185
Ser Glu Asn Thr Ala Lys Ile Leu Ala Lys Leu Leu Pro Gln Tyr Leu		
	195	200
Asp Gln Asp Leu Tyr Ile Val Ile Asn Gly Gly Val Glu Glu Thr Thr		
	210	215
Glu Leu Leu Lys Gln Arg Phe Asp His Ile Phe Tyr Thr Gly Asn Thr		
	225	230
Ala Val Gly Lys Ile Val Met Glu Ala Ala Ala Lys His Leu Thr Pro		
	245	250
Val Thr Leu Glu Leu Gly Gly Lys Ser Pro Cys Tyr Ile Asp Lys Asp		
	260	265
Cys Asp Leu Gly His Cys Leu Gln Thr His Asn Leu Gly Lys Ile His		
	275	280
Glu Leu Trp Pro Asn Leu His Cys Thr Arg Leu Tyr Ser Leu		
	290	295
		300

855

<210> 803
<211> 44
<212> PRT
<213> Homo sapiens

<400> 803
Pro Leu Gly Arg Leu Arg Gln Glu Asn Arg Leu Asn Pro Gly Gly Gly
1 5 10 15
Gly Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Ala Trp Val Met
20 25 30
Glu Arg Asp Ser Ile Ser Lys Lys Lys Leu Cys Met
35 40

<210> 804
<211> 97
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 804

Ala	Ile	Leu	Arg	Leu	Xaa	Leu	Xaa	Gly	Arg	Xaa	Leu	Thr	Xaa	Xaa	Leu
1				5				10					15		

857

Met Lys Ile Leu Val Glu Xaa Arg Leu Gln Leu His His His Gly Arg
 20 25 30

Xaa Gly Lys Ser Cys Xaa Thr Ser Arg Arg Ser Cys Ala Thr Ser Pro
 35 40 45

Trp Asp Phe Xaa Xaa Glu Met Ala Thr Ala Ala Ser Ser Ser Ser Leu
 50 55 60

Glu Lys Ser Tyr Xaa Leu Pro Asp Gly Gln Val Ile Thr Ile Xaa Asn
 65 70 75 80

Glu Arg Phe Arg Cys Pro Xaa Gly Ala Val Pro Ala Xaa Pro Ser Trp
 85 90 95

Xaa

<210> 805

<211> 65

<212> PRT

<213> Homo sapiens

<220>

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<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 805

Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Asp Leu
 1 5 10 15

Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn
 20 25 30

Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu
 35 40 45

Pro Gly Ser Gly Val Gly Asn Leu Arg Ala Cys Xaa Leu Pro Trp Met
 50 55 60

Trp

65

<210> 806

<211> 58

<212> PRT

858

<213> Homo sapiens

<220>

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<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 806

Glu	Gln	Gly	Gln	Ser	Asn	Asn	Asn	Ser	Asp	Thr	Cys	Ala	Glu	Phe	Arg
1				5					10					15	

Ile	Lys	Tyr	Val	Gly	Ala	Ile	Glu	Lys	Leu	Lys	Leu	Ser	Glu	Gly	Lys
			20					25					30		

Gly	Leu	Glu	Gly	Pro	Leu	Arg	Pro	Asp	Lys	Xaa	Xaa	Xaa	Thr	Leu	Ala
		35					40					45			

Gln	Gln	Gly	Trp	Xaa	Val	Cys	Leu	Leu	Phe
		50				55			

<210> 807

<211> 63

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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859

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<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 807
Ile Arg Xaa Ser Ser Xaa Trp Xaa Xaa Xaa Arg Gly Xaa Xaa Xaa Ile
1 5 10 15
Glu Asp Tyr Arg Gly Asn Val Gly Val Val Leu Phe Asn Phe Gly Lys
20 25 30
Glu Lys Phe Glu Val Lys Lys Gly Asp Arg Ile Ala Gln Leu His Leu
35 40 45
Xaa Thr Asp Phe Leu Ser Arg Asn Arg Arg Ser Ser Ser Leu Gly
50 55 60

860

<210> 808
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (142)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 808
 Ala Ser Gln Leu Pro Asp Tyr Ser Ile Ser Pro Pro Ser Leu Pro Pro
 1 5 10 15
 Arg Ile Ser Phe His Pro Ser Pro Thr Leu Ala Arg Val Ala Met Ala
 20 25 30
 Glu Pro Ser Ala Ala Thr Gln Ser His Ser Ile Ser Ser Ser Ser Phe
 35 40 45
 Gly Ala Glu Pro Ser Ala Pro Gly Gly Gly Gly Ser Pro Gly Ala Cys
 50 55 60
 Pro Ala Leu Gly Thr Lys Ser Cys Ser Ser Ser Cys Ala Val His Asp
 65 70 75 80
 Leu Ile Phe Trp Arg Asp Val Lys Lys Thr Gly Phe Val Phe Gly Thr
 85 90 95
 Thr Leu Ile Met Leu Leu Ser Leu Ala Ala Phe Ser Val Ile Ser Val
 100 105 110
 Val Ser Tyr Leu Ile Leu Ala Leu Leu Ser Val Thr Ile Ser Phe Arg
 115 120 125
 Ile Tyr Lys Ser Val Ile Gln Ala Val Gln Lys Ser Glu Xaa Gly His
 130 135 140
 Pro Phe Xaa Ala Tyr Leu Asp Xaa Thr Leu Leu Cys Pro Gln Asn Phe
 145 150 155 160

861

Pro

<210> 809
 <211> 61
 <212> PRT
 <213> Homo sapiens

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<220>
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 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 809
 Glu Thr Pro Ala Gly Cys Xaa Ile Asn Ser Ser Ser Ala Ser Ser Pro
 1 5 10 15
 Ala Ser His Leu Leu Xaa Ala Pro Arg Gln Ser Ala Gln Ser His Val
 20 25 30
 His Pro Arg Ser Ala Leu Ser Pro Ala His His Gln Ser Val His Ser
 35 40 45
 Pro Ala His Leu Ser Ser Ala Ser Arg Asn Val Leu Leu
 50 55 60

<210> 810
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

862

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 810

Thr Glu Val Ala Arg Val Arg Leu Leu Arg Pro Ser Xaa Ala Ala Ala
1 5 10 15

Met Arg Tyr Val Ala Ser Tyr Leu Leu Ala Ala Leu Gly Gly Asn Ser
20 25 30

Ser Pro Ser Ala Lys Asp Ile Lys Lys Ile Leu Xaa Ser Val Gly Ile
35 40 45

Glu Ala Asp Asp Asp Arg Leu Asn Lys Val Ile Ser Glu Leu Asn Gly
50 55 60

Lys Asn Ile Glu Asp Val Ile Ala Gln Gly Ile Xaa Lys Leu Ala Ser
65 70 75 80

Val Pro Ala Gly Trp Gly Leu
85

<210> 811

<211> 100

<212> PRT

<213> Homo sapiens

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<222> (11)

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<220>
<221> SITE

864

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 811

Ala	Pro	Ser	Cys	Ser	Trp	Leu	Ser	Ser	Gly	Xaa	Arg	Ser	Xaa	Pro	Asp
1				5					10					15	
Phe	Pro	Thr	Pro	Gly	Val	Val	Phe	Arg	Asp	Ile	Ser	Pro	Val	Leu	Lys
			20					25					30		
Asp	Pro	Xaa	Xaa	Phe	Arg	Ala	Xaa	Ile	Gly	Leu	Leu	Ala	Arg	Xaa	Leu
		35					40						45		
Lys	Ala	Thr	His	Gly	Gly	Arg	Ile	Asp	Tyr	Ile	Ala	Gly	Leu	Asp	Xaa
	50					55					60				
Arg	Arg	Val	Pro	Leu	Leu	Ala	Leu	Pro	Gly	Pro	Gly	Ala	Leu	Asp	Trp
65					70					75					80
Ala	Ala	Trp	Leu	Ile	Arg	Xaa	Arg	Xaa	Glu	Xaa	Xaa	Xaa	Xaa	Pro	Ile
				85					90					95	
Leu	Trp	Xaa	Xaa												
															100

<210> 812

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

Thr	Ser	Gln	Val	Arg	Gln	Asn	Tyr	His	Gln	Asp	Ser	Glu	Ala	Ala	Ile
1				5					10					15	
Asn	Arg	Gln	Ile	Asn	Leu	Glu	Leu	Tyr	Ala	Ser	Tyr	Val	Tyr	Leu	Ser
			20					25					30		
Met	Ser	Tyr	Tyr	Phe	Asp	Arg	Asp	Asp	Val	Ala	Leu	Lys	Asn	Phe	Ala
		35				40						45			
Lys	Tyr	Phe	Leu	His	Gln	Ser	His	Glu	Glu	Arg	Glu	His	Ala	Glu	Lys
	50					55					60				
Leu	Met	Lys	Leu	Gln	Asn	His	Glu	Val	Ala	Glu	Ser	Ser	Xaa	Gly	Tyr

865

65

70

75

80

Gln Glu Thr Arg Leu
85

<210> 813

<211> 88

<212> PRT

<213> Homo sapiens

<220>

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<222> (5)

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<220>

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866

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<400> 813
 Lys Leu Val Arg Xaa Pro Val Gln Val Xaa Gly Ile Glu Gly Xaa Tyr
 1 5 10 15
 Xaa Thr Xaa Leu Tyr Ser Ala Ala Ser Lys Gln Asn Lys Leu Glu Gln
 20 25 30
 Val Glu Lys Glu Leu Leu Arg Val Ala Gln Xaa Leu Lys Glu Pro Lys
 35 40 45
 Val Ala Ala Ser Val Leu Asn Pro Tyr Val Lys Arg Ser Ile Lys Val
 50 55 60
 Lys Ser Leu Xaa Asp Ile Thr Ala Xaa Glu Arg Xaa Ser Pro Leu His
 65 70 75 80
 Tyr Gln Pro Xaa Xaa Phe Ala Cys
 85

<210> 814
 <211> 133
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

867

<400> 814

Ala Gly Ala Val Ile Ile Gly Phe Arg Ser Lys Ile Lys Asn Ala Leu
1 5 10 15

Ala His Phe Leu Pro Gln Gly Thr Pro Thr Pro Leu Ile Pro Ile Leu
20 25 30

Val Ile Ile Glu Thr Ile Ser Leu Leu Ile Gln Pro Ile Ala Leu Ala
35 40 45

Val Arg Leu Thr Ala Asn Ile Thr Ala Gly His Leu Leu Met His Leu
50 55 60

Ile Gly Ser Ala Thr Leu Ala Ile Ser Thr Ile Asn Leu Pro Ser Thr
65 70 75 80

Leu Ile Ile Phe Thr Ile Leu Ile Leu Leu Thr Ile Leu Glu Ile Ala
85 90 95

Val Ala Leu Ile Gln Ala Tyr Val Phe Thr Leu Leu Val Lys Pro Leu
100 105 110

Pro Ala Arg Gln His Ile Lys Lys Lys Lys Lys Xaa Lys Gly Gly
115 120 125

Ala Gly Xaa Gln Ser
130

<210> 815

<211> 110

<212> PRT

<213> Homo sapiens

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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868

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<220>
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<400> 815
 Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Val Ala Lys Met Val
 1 5 10 15
 Lys Pro Lys Tyr Lys Gly Arg Xaa Thr Ile Asn Pro Ser Lys Ala Ser
 20 25 30
 Thr Asn Pro Xaa Arg Val Gln Gly Ala Xaa Gly Gln Asn Met Arg Asp
 35 40 45
 Arg Ala Thr Ile Arg Arg Leu Xaa Met Tyr Arg Gln Lys Glu Arg Arg
 50 55 60
 Xaa Ser Arg Gly Lys Xaa Ile Lys Pro Leu Gln Tyr Gln Ser Thr Val
 65 70 75 80
 Ala Ser Gly Thr Val Ala Arg Val Glu Pro Asn Ile Lys Trp Phe Gly
 85 90 95
 Asn Thr Arg Val Ile Lys Gln Ser Ser Leu Gln Lys Phe Gln
 100 105 110

<210> 816
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 816
 Lys Asn Ala Leu Glu Lys Tyr Gly Pro Leu Lys Pro Leu Pro Gln Thr

869

1 5 10 15
 Pro His Leu Glu Glu Asp Leu Lys Glu Val Leu Arg Ser Glu Ala Gly
 20 25 30
 Ile Glu Leu Ile Ile Glu Asp Asp Ile Arg Pro Glu Lys Gln Lys Arg
 35 40 45
 Lys Pro Gly Leu Arg Arg Ser Pro Ile Lys Lys Val Arg Lys Ser Leu
 50 55 60
 Ala Leu Asp Ile Val Asp Glu Asp Val Lys Leu Met Met Ser Thr Leu
 65 70 75 80
 Pro Lys Ser Leu Ser Leu Pro Thr Thr Ala Pro Ser Asn Ser Ser Ser
 85 90 95
 Leu Thr Leu Ser Gly Ile Lys Glu Asp Asn Ser Phe Ser Gln Ala His
 100 105 110
 Val Arg Pro Gly Leu Ile Ser Asp Pro Ala
 115 120

<210> 817

<211> 54

<212> PRT

<213> Homo sapiens

<400> 817

Pro Glu Pro Pro Glu Ser Trp Ser Gly Val Arg Asp Gly Thr Thr His
 1 5 10 15
 Pro Ala Met Cys Leu Gln Asp Leu Thr Ala Val Glu Ser Glu Phe Leu
 20 25 30
 Ser Gln Phe Asn Met Thr Phe Pro Ser Ser Pro Pro Pro Ser Pro Cys
 35 40 45
 Leu Leu Ser Ser Leu Val
 50

<210> 818

<211> 46

<212> PRT

<213> Homo sapiens

<220>

870

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<400> 818
Ala Met Ile Ser Ile Gly Phe Leu Gly Xaa Ile Val Arg Ala His His
  1           5           10           15

Ile Phe Thr Val Gly Ile Asp Xaa Asp Thr Xaa Ala Tyr Phe Thr Cys
          20           25           30

Xaa Thr Ile Ile Xaa Xaa Ile Pro Lys Arg Gly Gln Xaa Asn
      35           40           45

<210> 819
<211> 118
<212> PRT
<213> Homo sapiens

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871

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 Ile Val Val Ile Gly His Val Asp Ser Gly Lys Ser Thr Thr Thr Gly
 20 25 30
 His Leu Thr Tyr Xaa Xaa Gly Gly Ile Asp Lys Arg Xaa Ile Glu Lys
 35 40 45
 Phe Glu Lys Glu Ala Ala Glu Met Gly Lys Gly Ser Phe Lys Tyr Ala
 50 55 60
 Trp Val Leu Asp Xaa Leu Lys Ala Glu Arg Xaa Arg Gly Ile Thr Ile
 65 70 75 80
 Asp Ile Ser Leu Trp Lys Phe Glu Thr Ser Lys Tyr Tyr Val Thr Ile
 85 90 95
 Ile Asp Ala Pro Gly His Arg Asp Phe Ile Lys Xaa Met Ile Thr Gly
 100 105 110

872

Thr Ser Gln Ala Asp Cys
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<210> 820

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<212> PRT

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Ile Leu Gly Phe Phe Glu Ile Ile Thr Val Cys Phe Pro Phe Val Ala
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Gly Asn Phe Trp Gly Arg Thr Leu Leu Leu Ser Ser Val Xaa Gln Thr
20 25 30

Gln Pro Val Thr Met Val Leu Asp His Leu Cys Arg Asp Ser Thr Ser
35 40 45

Phe Pro Ile Met Ile Cys Pro His Trp Arg Tyr Phe Thr Ser Val Ile
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Val Leu Ser Ser Leu Gly Ile Glu Ile Lys Ala Val Glu Tyr Met Asn
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  1             5             10             15

Arg Ser Xaa Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser
      20             25             30

Ala Gly Pro Glu Met Gln Thr Gly Arg Asn Asn Phe Val Xaa Arg Arg
      35             40             45

Asn Pro Ala Asp Pro Gln Arg Xaa Pro Ser Asn Pro Ser His Arg Xaa
      50             55             60

Gln Cys Ala Ala Gly Xaa Glu Gln Ser Glu His Asn Val Cys Gln Asp
      65             70             75             80

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874

Xaa Xaa Glu Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val
85 90 95
Cys Xaa Xaa Leu
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<210> 822
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Xaa	Gln	Xaa	Cys	Xaa	Asp	Gly	Thr	Asn	Pro	Gly	Xaa	Leu	Phe	Gln	Pro
1				5					10					15	

Pro	Thr	Asp	Pro	Pro	Ile	Ser	Ser	Pro	Leu	Ala	Thr	Ser	Gly	Thr	Ile
			20					25					30		

Phe	Ser	Xaa	Ile	Ser	Xaa	Phe	Trp	Asp	Leu	Xaa	Pro	Pro	Phe	Leu	Trp
		35					40					45			

Leu	Ala	Pro	Ser	Cys	Gln	Pro	Thr	Met	Ser	Ser	Gln	Ile	Arg	Gln	Asn
	50					55					60				

Tyr	Ser	Thr	Asp	Xaa	Glu	Ala	Thr	Val	Asn	Ser	Leu	Val	Xaa	Leu	Tyr
65					70					75					80

Leu	His	Ala	Ser	Tyr	Thr	Tyr	Leu	Ser	Leu	Gly	Phe	Tyr	Phe	Xaa	Xaa
				85					90					95	

Asp	Asp	Leu	Ala	Leu	Glu	Ser	Val	Ser	Xaa	Phe	Phe	His	Glu	Thr	Gly
			100					105					110		

Arg	Gly	Xaa	Arg	Xaa	Gly	Tyr	Glu	Arg	Leu	Leu	Asn	Met	Gln	Asn	Gln
		115					120					125			

Arg	Gly	Arg	Pro	Arg	Ser	Leu	Pro	Gly	Ser	Gln	Gln	Ala	Xaa	Leu	Xaa
	130					135					140				

Ile	Ile	Gly	Val	Lys	Thr	Pro	Lys	Xaa	Xaa	Xaa	Thr	Cys	His	Cys	Pro
145					150					155					160

Glu Asn Lys

<210> 823

<211> 62

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<213> Homo sapiens

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<400> 823

Xaa	Gly	Thr	Ser	Xaa	Ser	Lys	Ala	Ser	Thr	Pro	Asn	Gly	Tyr	Asp	Asn
1				5					10					15	

Gly	Xaa	Ile	Trp	Xaa	Thr	Trp	Lys	Thr	Arg	Trp	Tyr	Xaa	Met	Lys	Lys
		20					25					30			

Thr	Thr	Xaa	Xaa	Ile	Ile	Pro	Phe	Asn	Arg	Leu	Thr	Ile	Xaa	Glu	Gly
		35				40					45				

Gln	Gln	His	His	Leu	Gly	Gly	Ala	Lys	Gln	Ala	Gly	Asp	Val
50					55						60		

878

<210> 824
<211> 53
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<400> 824
Glu Glu Ile Asn Leu Ala Pro Asp Ser Ser Ser Val Val Val Ser Xaa
1 5 10 15
Leu Met Val Ala Thr Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp
20 25 30
Thr Leu Thr Ser Arg Pro Ala Gln Gly Val Val Thr Thr Xaa Xaa Asn
35 40 45
Val Ser Pro Xaa Xaa
50

<210> 825
<211> 26
<212> PRT
<213> Homo sapiens

879

<400> 825

Ser Arg Phe Thr Asp Asp Asp Lys Thr Asp His Leu Ser Trp Glu Trp
 1 5 10 15

Asn Leu Thr Ile Lys Lys Asp Trp Lys Asp
 20 25

<210> 826

<211> 102

<212> PRT

<213> Homo sapiens

<220>

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<400> 826

Arg Ser Val Arg Ala Leu Leu Cys Thr Leu Arg Ala Val Pro Leu Pro
 1 5 10 15

Ala Ala Pro Cys Pro Pro Arg Pro Trp Gln Leu Gly Val Gly Ala Val
 20 25 30

Arg Thr Leu Arg Thr Gly Pro Ala Leu Leu Ser Val Arg Lys Phe Thr
 35 40 45

Xaa Lys His Glu Trp Val Asn Asn Arg Lys Trp His Trp Asn Ser Gly
 50 55 60

Asn Pro Ala Ile Leu His Arg Lys Arg Trp Glu Ile Leu Phe Ile Val
 65 70 75 80

Ile Ser Leu Lys Phe Gly Thr Lys Phe Glu Thr Asn Lys Leu Ile Leu
 85 90 95

Gly Cys Phe Trp Arg Val
 100

<210> 827

<211> 140

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<400> 827

Pro	His	Ser	Arg	Ala	Leu	Leu	Thr	Pro	Asn	Arg	Ala	Pro	Lys	Lys	Lys
1				5				10					15		

Met	Ala	Ile	Ser	Gly	Val	Pro	Val	Leu	Gly	Phe	Phe	Ile	Ile	Ala	Val
			20					25				30			

Leu	Met	Ser	Ala	Gln	Glu	Ser	Trp	Ala	Ile	Lys	Glu	Glu	His	Val	Ile
		35					40					45			

Ile	Gln	Ala	Glu	Phe	Tyr	Leu	Asn	Pro	Asp	Gln	Ser	Gly	Glu	Phe	Met
	50					55				60					

Phe	Asp	Phe	Asp	Gly	Asp	Glu	Ile	Phe	His	Val	Asp	Met	Ala	Lys	Lys
65				70						75				80	

Glu	Thr	Val	Trp	Arg	Leu	Glu	Glu	Phe	Gly	Arg	Phe	Ala	Ser	Phe	Xaa
			85					90						95	

Ala	Gln	Gly	Ala	Leu	Ala	Asn	Ile	Ala	Val	Asp	Lys	Ala	Asn	Leu	Glu
		100					105						110		

Ile	Met	Thr	Lys	Arg	Ser	Asn	Tyr	Thr	Pro	Ile	Thr	Asn	Val	Pro	Xaa
	115						120					125			

Glu	Val	Xaa	Cys	Ala	His	Xaa	Gln	Pro	Cys	Gly	Thr
130						135					140

<210> 828

<211> 88

<212> PRT

<213> Homo sapiens

881

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<400> 828

Arg Xaa Asp Glu Asn Lys Val Asp Gly Met Asn Ala Pro Lys Gly Gln
1 5 10 15

Thr Gly Asn Ser Ser Arg Gly Pro Gly Asp Gly Gly Asn Arg Asp His
20 25 30

Trp Lys Glu Ser Asp Arg Lys Asp Gly Lys Lys Asp Gln Asp Ser Arg
35 40 45

Ser Ala Pro Glu Pro Lys Lys Pro Glu Glu Asn Pro Ala Ser Lys Phe
50 55 60

Ser Ser Ala Ser Lys Tyr Ala Ala Leu Ser Val Asp Gly Glu Asp Glu
65 70 75 80

Asn Glu Gly Glu Asp Tyr Ala Glu
85

<210> 829

<211> 217

<212> PRT

<213> Homo sapiens

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<400> 829

Ile Leu Pro Gly Tyr Ile Asp Phe Thr Ala Asp Gln Val Asp Leu Thr
 1 5 10 15

Ser Ala Leu Thr Lys Lys Ile Thr Leu Lys Thr Pro Leu Val Ser Ser
 20 25 30

Pro Met Asp Thr Val Thr Glu Ala Gly Met Ala Ile Ala Met Ala Leu
 35 40 45

Thr Gly Gly Ile Gly Phe Ile His His Asn Cys Thr Pro Glu Phe Gln
 50 55 60

Ala Asn Glu Val Arg Lys Val Lys Lys Tyr Glu Gln Gly Phe Ile Thr
 65 70 75 80

Asp Pro Val Val Leu Ser Pro Lys Asp Arg Val Arg Asp Val Phe Glu
 85 90 95

Ala Lys Ala Arg His Gly Phe Cys Gly Ile Pro Ile Thr Asp Thr Gly

883

100					105					110					
Arg	Met	Gly	Ser	Arg	Leu	Val	Gly	Ile	Ile	Ser	Ser	Arg	Asp	Ile	Asp
	115						120					125			
Phe	Leu	Lys	Glu	Glu	Glu	His	Asp	Xaa	Phe	Leu	Glu	Glu	Ile	Met	Thr
	130					135					140				
Lys	Arg	Glu	Asp	Leu	Val	Val	Ala	Pro	Ala	Gly	Ile	Thr	Leu	Lys	Glu
145					150					155					160
Ala	Asn	Glu	Ile	Leu	Gln	Arg	Xaa	Lys	Xaa	Gly	Lys	Val	Pro	Ile	Xaa
				165					170					175	
Asn	Glu	Met	Met	Ser	Leu	Xaa	Ala	Xaa	Trp	Pro	Asp	Arg	Xaa	Glu	Glu
		180						185					190		
Glu	Ser	Gly	Xaa	Pro	Leu	Ala	Ser	Lys	Met	Pro	Glu	Gln	Xaa	Trp	Val
	195						200					205			
Gly	Xaa	His	Gly	Thr	Met	Gly	Ala	Ser							
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 <400> 830
 Trp Lys Phe Pro Xaa Asp Thr Xaa Xaa Arg Tyr Ala Cys Arg Tyr Arg
 1 5 10 15
 Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser Gly Ala
 20 25 30
 Ala Glu Thr Pro Pro Ala Trp His Leu Gly Ala Gln Arg Ser Pro Asp
 35 40 45
 Thr Ala Ala Ala Ala Met Glu Ser Glu Thr Glu Pro Glu Pro Xaa Thr
 50 55 60
 Leu Leu Xaa Lys Ser Pro Asn Gln Arg His Arg Asp Leu Glu Leu Ser
 65 70 75 80
 Gly Asp Arg Gly Trp Ser Val Gly His Leu Lys Ala His Leu Ser Arg
 85 90 95
 Xaa Tyr Pro Glu Arg Xaa Arg
 100

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<400> 831
 Asn Pro Ser Ser Ser Tyr Arg Ser Ala Arg Val Gly Gly Met Ser Val
 1 5 10 15

885

Ala Cys Val Leu Lys Arg Lys Ala Val Leu Trp Gln Asp Ser Phe Ser
 20 25 30

Pro His Leu Lys His His Pro Gln Glu Pro Ala Asn Pro Asn Met Pro
 35 40 45

Val Val Leu Thr Ser Gly Thr Gly Ser Gln Ala Xaa His Asn Gln Leu
 50 55 60

Gln Ile Arg Leu Leu Gln Leu Gly Leu Thr Pro Ala Leu Ser Gln Asp
 65 70 75 80

Leu

<210> 832
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 832
 Lys Arg Ser Leu Met Thr Arg Gly Leu Ser Leu Ala Leu Ala Val Val
 1 5 10 15

Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg
 20 25 30

Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
 35 40 45

Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp
 50 55 60

Arg Leu Met Arg Tyr Phe Leu Leu Thr His Leu Cys Gly Ile Ser His
 65 70 75 80

Arg Ile Trp Cys Thr Leu Ser Thr Ile Cys Ser Asp Ala Ala
 85 90

<210> 833
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 833
 Gly Asp Arg Gly Pro Gly Leu Cys Leu His Arg Gln Val Pro Glu His

886

1 5 10 15
 Leu Gly Pro Asp Phe Gly His Leu His Asp His Ser Ala His His His
 20 25 30
 Pro Ser Val Gly Arg Pro Gly Pro Ala Ile Asp Gln Glu Ala Ser Leu
 35 40 45
 Arg Pro Gly Ala Leu Pro Val Thr Cys Ile Pro Arg Thr Leu Ser Ser
 50 55 60
 Ile Pro Arg Pro Ala Pro Arg Gly Gln Glu Leu Cys Pro
 65 70 75

<210> 834

<211> 146

<212> PRT

<213> Homo sapiens

<400> 834

Phe Arg Phe Ile Asn Ala Arg Arg Arg Ile Val Gln Pro Met Ile Asp
 1 5 10 15
 Gln Ser Asn Arg Ala Val Ser Gln Gly Ala Ala Tyr Ser Pro Glu Gly
 20 25 30
 Gln Pro Met Gly Ser Phe Val Leu Asp Gly Gln Gln His Met Gly Ile
 35 40 45
 Arg Pro Ala Gly Leu Gln Ser Met Pro Gly Asp Tyr Val Ser Gln Gly
 50 55 60
 Gly Pro Met Gly Met Ser Met Ala Gln Pro Ser Tyr Thr Pro Pro Gln
 65 70 75 80
 Met Thr Pro His Pro Thr Gln Leu Arg His Gly Pro Pro Met His Ser
 85 90 95
 Tyr Leu Pro Ser His Pro His His Pro Ala Met Met Met His Gly Gly
 100 105 110
 Pro Pro Thr His Pro Gly Met Thr Met Ser Ala Gln Ser Pro Thr Met
 115 120 125
 Leu Asn Ser Val Asp Pro Asn Val Gly Gly Gln Val Met Asp Ile His
 130 135 140
 Ala Gln
 145

887

<210> 835
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<400> 835
 Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
 1 5 10 15
 Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 20 25 30
 Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 35 40 45
 Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
 50 55 60
 Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 65 70 75 80
 Arg Trp Glu Leu Ser Ser Gln Pro Thr Ile Pro Ile Val Gly Xaa Ile
 85 90 95
 Ala Gly Leu Val Leu Leu Gly Leu
 100

<210> 836
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 <212> PRT
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888

<400> 836

Gly Gly Trp Thr Gln Arg Arg Leu Ser Pro Pro Gly His Ser Glu Ser
1 5 10 15

Ala Gln Ser Lys Met Leu Ser Gly Ile Gly Gly Phe Val Leu Gly Ser
20 25 30

Ser Ser Ser Gly Trp Ala Tyr Tyr Pro Ser Xaa Asp Gln Lys Xaa Leu
35 40 45

Leu His
50

<210> 837

<211> 62

<212> PRT

<213> Homo sapiens

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 <400> 837
 Xaa Arg Ser Ser Leu Xaa Thr Ile Asn Tyr Asn Glu Phe Pro Thr Met
 1 5 10 15

 Val Phe Pro Ser Gly Gln Ile Ser Xaa Gly Ser Xaa Leu Ala Pro Ala
 20 25 30

 Pro Pro Gln Val Pro Ala Pro Gly Ser Ser Pro Cys Pro Xaa Xaa Gln
 35 40 45

 Xaa Trp Tyr Gln Leu Trp Pro Arg Pro Gln Xaa Leu Cys Pro
 50 55 60

<210> 838
 <211> 105
 <212> PRT
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<220>
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 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 838
 His Glu Leu Thr Ala Lys Tyr Leu Asn Tyr Tyr Arg Gly Met Leu Asp
 1 5 10 15

 Val Ala His Glu Gln Val Asp Phe Lys Asp Phe Tyr Pro Ala Ile Ala
 20 25 30

890

Val Asn Asp Val Arg Gln Ala Ala Arg Ser Ala Ala Ser Tyr Met Leu
 35 40 45

Phe Asp Pro Lys Asp Ser Val Met Gln Gln Asn Leu Val Tyr Tyr Arg
 50 55 60

Phe His Arg Ala Arg Trp Gly Leu Glu Glu Glu Asp Phe Gln Pro Arg
 65 70 75 80

Glu Glu Ala Met Leu Tyr His Asn Gln Thr Ala Glu Leu Arg Xaa Cys
 85 90 95

Trp Ser Ser Xaa Thr Cys Thr Cys Xaa
 100 105

<210> 839
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 839
 Pro Asp Arg Pro Trp Ala Lys Pro Glu Asp Pro Ser Leu Leu Glu Asp
 1 5 10 15

Pro Arg Ile Lys Ala Ile Ala Ala Lys His Asn Lys Thr Thr Ala Gln
 20 25 30

Val Leu Ile Arg Phe Pro Met Gln Arg Asn Gly Gly Gly Ser Pro Ser
 35 40 45

Leu

<210> 840
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (53)

891

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 840

Ser Lys Gly Ile Arg Asp Asn Glu Arg Ser Gly Arg Ala Arg Val His
1 5 10 15

Val Ser Glu Glu Gly Thr Glu Pro Glu Ala Met Leu Gln Val Leu Gly
20 25 30

Pro Lys Pro Ala Leu Pro Ala Gly Thr Xaa Asp Thr Ala Lys Glu Asp
35 40 45

Ala Ala Asn Arg Xaa Leu Ala Lys Leu Tyr Lys Val Ser Asn Gly Ala
50 55 60

Trp Thr Met Ser Val Ser Leu Leu Ala Asp Glu Asn Pro Ser Ala Lys
65 70 75 80

Gly Pro Glu Ile Gln Lys Thr Ala Ser Ser Trp Thr Thr Gln Xaa Xaa
85 90 95

Lys Ser Leu Ser
100

<210> 841

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 841

Gly Asn Gly Gly Arg Asp Phe Val Arg Arg Asp Leu Ala Ile Arg Asp
1 5 10 15

Thr Phe Val Asn Ala Ser Arg Thr Leu Tyr Ser Ser Ser Pro Arg Val

892

	20		25		30	
Leu	Ser	Asn	Asn	Ser	Asp	Ala
	35		40		45	
Asn	Leu	Glu	Leu	Ile	Asn	Thr
Val						
Ala	Lys	Asn	Thr	Asn	Asn	Lys
	50		55		60	
Ile	Ser	Arg	Leu	Leu	Asp	Ser
Leu	Xaa					
Ser	Asp	Thr	Arg	Leu	Val	Leu
	65		70		75	
Leu	Leu	Asn	Ala	Ile	Leu	Pro
Glu	Cys	Gln				
						80
Val	Glu	Asp	Asn	Ile		
						85

<210> 842

<211> 81

<212> PRT

<213> Homo sapiens

<220>

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 842
 Xaa Thr Asn Met Ala Phe Ser Pro Phe Xaa Ile Ala Ser Xaa Leu Thr
 1 5 10 15
 Xaa Val Leu Leu Gly Xaa Gly Asp Asn Thr Lys Thr Asn Leu Glu Ser
 20 25 30
 Xaa Leu Ser Tyr Pro Xaa Asp Phe Thr Xaa Val His Gln Ala Leu Lys
 35 40 45
 Gly Xaa Thr Thr Lys Gly Val Thr Ser Val Ser Gln Ile Phe Xaa Cys
 50 55 60
 Pro Glu Leu Ala Ile Arg Asp Pro Leu Xaa Asn Ala Xaa Arg Thr Leu
 65 70 75 80
 Phe

894

<210> 843
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 843
 Gly Thr Ser Lys Ala Gln Asp Gly Thr Phe Ser Ser Val Leu Thr Leu
 1 5 10 15
 Thr Asn Leu Thr Gly Leu Asp Thr Gly Glu Tyr Phe Cys Thr His Asn
 20 25 30
 Asp Ser Arg Gly Leu Glu Thr Asp Glu Arg Lys Arg Leu Tyr Ile Phe
 35 40 45
 Val Pro Glu Ala Thr Ser Ala Lys Pro Pro Leu Gly Thr Gly Arg Trp
 50 55 60
 Ile Leu Met Pro Thr Met Ser Thr Asp Ser Arg Val Ser Pro Leu Ser
 65 70 75 80
 Gly Leu Met Leu Ser Arg Val Phe Ile His Gln Arg Leu Cys Gly Thr
 85 90 95
 Xaa Xaa Gly Leu Trp Ser Ala Arg Trp Arg Thr Ser Pro Ser Xaa Ala
 100 105 110
 Leu Trp Ile Gly Xaa Glu Val Ser Ile
 115 120

895

<210> 844
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 844
 Xaa Arg Ala Gly Leu Gly Pro Gly Pro Trp Ala Xaa Pro His Ser Pro
 1 5 10 15
 Trp Arg Ser Trp Arg Pro Leu Gln Ser Pro Lys Gly Leu Gly Arg Ser
 20 25 30
 Trp Ala Val Arg Val Ser Arg Cys Pro Met Thr Lys Thr Phe Ala Ala
 35 40 45
 Ser Gly Gln Thr Gly Tyr Leu Ile Gln Ser Thr Gly Pro Lys Ser Cys
 50 55 60
 Val Ile Thr Tyr Leu Ala Gln Val Asp Pro Lys Gly Ser Leu Pro Lys
 65 70 75 80
 Trp Val Val Asn Lys Ser Ser Gln Phe Leu Ala Pro Lys Ala Met Lys
 85 90 95
 Lys Met Tyr Lys Ala Cys Leu Lys Tyr Pro Glu Trp Lys Gln Lys His

896

100	105	110
Leu Pro His Phe Lys Pro Trp Leu His Pro Glu Gln Ser Pro Xaa Pro		
115	120	125
Ser Leu Xaa Leu Arg Ser Xaa Arg		
130	135	

<210> 845
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 845
 Pro Lys Gln Leu Glu Ala Leu Cys Val Gly Ala Ala Thr Gly Pro Arg
 1 5 10 15
 Ala Met Trp Leu Cys Pro Leu Ala Leu Asn Leu Ile Leu Met Ala Ala
 20 25 30
 Ser Gly Ala Val Cys Glu Val Lys Asp Val Cys Val Gly Ser Pro Gly
 35 40 45
 Ile Pro Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg
 50 55 60
 Asp Gly Val Lys Gly Asp Pro Gly Pro Pro Gly Pro Met Gly Pro Pro
 65 70 75 80
 Gly Glu Met Pro Cys Pro Pro Gly Asn Asp Gly Leu Pro Gly Ala Pro
 85 90 95
 Gly Ile Pro Gly Glu Cys Gly Glu Lys Gly Glu Pro Gly Glu Arg Gly
 100 105 110
 Pro Pro Gly Leu Pro Ala His Leu Asp Glu Glu Leu Gln Ala Thr Leu
 115 120 125
 His Asp Phe Arg His Gln Ile Leu Gln Thr Arg Gly Ala Leu Ser Leu
 130 135 140
 Gln
 145

<210> 846
 <211> 61
 <212> PRT

897

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Lys	Leu	Pro	Leu	Lys	Ala	Lys	Met	Gly	Lys	Glu	Lys	Thr	His	Ile	Asn
1				5					10					15	

Ile	Val	Val	Ile	Gly	His	Val	Asn	Ser	Gly	Lys	Ser	Thr	Thr	Thr	Gly
			20					25					30		

His	Leu	Ile	Tyr	Ile	Cys	Gly	Gly	Phe	Xaa	Lys	Lys	Xaa	Phe	Glu	Xaa
		35					40					45			

Phe	Glu	Lys	Glu	Ala	Ala	Xaa	Met	Gly	Lys	Gly	Ser	Ser
	50					55					60	

<210> 847

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 847

Val	Gln	Pro	Ala	Leu	Ala	His	Arg	Ala	Val	Arg	Asp	Leu	Arg	Ala	Ala
1				5					10					15	

898

Cys Arg Gln Gly Ile Cys Gln Arg Leu Arg Ser Pro Glu Pro Pro Glu
 20 25 30
 Leu Gln His His Val Ile Trp Asp Leu Pro Gly Arg Gly Gly Gly Gly
 35 40 45
 Gly Phe Leu Arg Pro Pro His Leu Met Pro Thr Pro Cys Pro Ala Arg
 50 55 60
 His Gly Arg Gly Leu Glu Ala Xaa Glu Lys
 65 70

<210> 848
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 848
 Leu Xaa Xaa Xaa Glu Ala Ala Met Phe His Arg Lys Leu Phe Glu Glu
 1 5 10 15

Leu Val Arg Ala Ser Ser His Ser Thr Asp Leu Met Glu Ala Met Ala
 20 25 30

Met Gly Ser Val Glu Ala Ser Tyr
 35 40

<210> 849
 <211> 125
 <212> PRT
 <213> Homo sapiens

899

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 849

Glu	Glu	Leu	Gln	Val	Asp	Phe	Leu	Asp	His	Val	Pro	Leu	Thr	Thr	His
1				5					10					15	
Asn	Phe	Ala	Arg	Lys	Thr	Phe	Leu	Lys	Leu	Ala	Phe	Cys	Asp	Ile	Cys
			20					25					30		
Gln	Lys	Phe	Leu	Leu	Asn	Gly	Phe	Arg	Cys	Gln	Thr	Cys	Gly	Tyr	Lys
		35					40					45			
Phe	His	Glu	His	Cys	Ser	Thr	Lys	Val	Pro	Thr	Met	Cys	Val	Asp	Trp
	50					55					60				
Ser	Asn	Ile	Arg	Gln	Leu	Leu	Leu	Phe	Pro	Asn	Ser	Thr	Ile	Gly	Asp
65					70					75					80
Ser	Gly	Val	Pro	Ala	Leu	Pro	Ser	Leu	Thr	Met	Arg	Arg	Met	Arg	Glu
				85					90					95	
Ser	Val	Pro	Arg	Met	Pro	Val	Ser	Ser	Gln	His	Arg	Tyr	Ser	Thr	Pro
		100						105					110		
Xaa	Ala	Phe	Xaa	Phe	Xaa	Thr	Ser	Ser	Pro	Ser	Ser	Xaa			
		115					120					125			

<210> 850
 <211> 52
 <212> PRT
 <213> Homo sapiens

900

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850
Pro Asp Arg Arg Arg Ala Ala Ile Met Asp Thr Ser Arg Val Gln Pro
1 5 10 15
Ile Xaa Leu Ala Arg Val Thr Xaa Val Leu Gly Arg Thr Gly Ser Gln
20 25 30
Gly Gln Cys Thr Gln Val Ile Gly Trp Gly His Xaa Ala Asp Cys Arg
35 40 45
Xaa Pro Lys Pro
50

<210> 851
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

901

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 851

Pro	Thr	Arg	Pro	Leu	Pro	Ala	Pro	Pro	Leu	Val	Ser	Ser	Lys	Met	Ala
1				5					10					15	

Ser	Gly	Gly	Ser	Gly	Gly	Val	Ser	Val	Pro	Ala	Leu	Trp	Ser	Glu	Val
			20					25					30		

Asn	Arg	Tyr	Gly	Gln	Asn	Gly	Asp	Phe	Thr	Arg	Ala	Leu	Lys	Thr	Val
		35					40						45		

Asn	Lys	Ile	Leu	Gln	Ile	Asn	Lys	Asp	Asp	Val	Thr	Ala	Leu	His	Cys
	50					55					60				

Lys	Val	Val	Cys	Leu	Ile	Xaa	Asn	Gly	Ser	Phe	Lys	Glu	Ala	Leu	Asn
65					70					75					80

Val	Ile	Asn	Thr	His	Thr	Lys	Val	Xaa	Ala	Asn	Asn	Ser	Leu	Ser	Phe
				85					90					95	

Glu	Xaa	Ala	Tyr	Cys	Glu	Tyr	Arg	Leu	Lys	Gln	Asn
			100						105		

<210> 852

<211> 102

<212> PRT

<213> Homo sapiens

<220>

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<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

902

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 852

Ser	Trp	Arg	Leu	Cys	Val	Trp	Val	Ala	Asp	Phe	Leu	Glu	Pro	Glu	Lys
1				5					10					15	
Lys	Val	Thr	Gly	His	Met	Arg	Asp	Arg	Trp	Ser	Glu	Ser	Val	Thr	Gly
			20					25					30		
Ala	Ala	Thr	Gly	Pro	Arg	Ala	Met	Trp	Leu	Cys	Pro	Leu	Ala	Leu	Asn
			35				40					45			
Leu	Ile	Leu	Met	Ala	Ala	Ser	Gly	Ala	Ala	Cys	Glu	Val	Lys	Asp	Val
	50					55					60				
Cys	Val	Gly	Ser	Pro	Gly	Ile	Pro	Gly	Xaa	Pro	Gly	Ser	His	Gly	Leu
	65				70				75						80
Pro	Xaa	Xaa	Glu	Gly	Xaa	Asn	Gly	Val	Lys	Xaa	Asp	Pro	Gly	Pro	Pro
				85					90					95	
Xaa	Pro	Met	Gly	Pro	Pro										
			100												

<210> 853

<211> 49

<212> PRT

<213> Homo sapiens

<400> 853

Asn	Leu	Met	Gly	Arg	Tyr	Gly	Asp	Asn	Asn	His	Ser	Gln	Gly	Val	Asn
1				5					10					15	
Trp	Phe	His	Trp	Lys	Gly	His	Glu	His	Ser	Ile	Gln	Phe	Ala	Glu	Met
			20					25					30		
Lys	Leu	Arg	Pro	Ser	Asn	Phe	Arg	Asn	Leu	Glu	Gly	Arg	Arg	Lys	Arg
		35					40					45			

Ala

<210> 854
<211> 130
<212> PRT
<213> Homo sapiens

<220>
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<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 854
Leu Ser Ala Met Arg Phe Leu Ala Ala Thr Phe Leu Leu Leu Ala Leu
1 5 10 15

Ser Thr Ala Ala Gln Ala Glu Pro Val Gln Phe Lys Asp Cys Gly Ser

904

20							25					30				
Val	Asp	Gly	Val	Ile	Lys	Glu	Val	Asn	Val	Ser	Pro	Cys	Pro	Thr	Gln	
35							40			45						
Pro	Cys	Gln	Leu	Ser	Lys	Gly	Gln	Ser	Tyr	Ser	Val	Asn	Val	Thr	Phe	
50			55				60									
Thr	Xaa	Asn	Ile	Gln	Xaa	Lys	Ser	Xaa	Lys	Ala	Val	Val	His	Gly	Ile	
65		70				75					80					
Leu	Met	Gly	Val	Pro	Val	Pro	Phe	Pro	Ile	Pro	Glu	Pro	Asp	Gly	Cys	
85				90					95							
Lys	Ser	Gly	Ile	Asn	Cys	Pro	Ile	Gln	Lys	Asp	Lys	Thr	Tyr	Ser	Tyr	
100			105				110									
Leu	Asn	Lys	Leu	Pro	Xaa	Lys	Ser	Glu	Tyr	Pro	Ser	Ile	Lys	Leu	Xaa	
115		120				125										
Xaa	Xaa															
130																

<210> 855

<211> 173

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 855

Phe Ile Phe Thr Lys Trp Leu Gln Asp Val Phe Asn Val Pro Leu Val
1 5 10 15

Ile Gln Met Thr Asp Asp Glu Lys Tyr Leu Trp Lys Asp Leu Thr Leu
20 25 30

Asp Gln Ala Tyr Ser Tyr Ala Val Glu Asn Ala Lys Asp Ile Ile Ala
35 40 45

Cys Gly Phe Asp Ile Asn Lys Thr Phe Ile Phe Ser Asp Leu Asp Tyr

905

50		55		60
Met Gly Met Ser Ser Gly Phe Tyr Lys Asn Val Val Lys Ile Gln Lys				
65		70		75
His Val Thr Phe Asn Gln Val Lys Gly Ile Phe Gly Phe Thr Asp Ser				
	85		90	95
Asp Cys Ile Gly Lys Ile Ser Phe Pro Ala Ile Gln Ala Ala Pro Ser				
	100		105	110
Phe Ser Asn Ser Phe Pro Gln Ile Phe Arg Asp Arg Thr Asp Ile Gln				
	115		120	125
Cys Leu Ile Pro Cys Ala Ile Asp Gln Asp Pro Tyr Phe Arg Met Thr				
	130		135	140
Arg Asp Val Ala Pro Arg Ile Gly Tyr Pro Lys Pro Ala Leu Xaa Thr				
145		150		155
				160
Pro Pro Ser Ser Gln Pro Cys Xaa Ala Pro Arg Pro Lys				
	165		170	

<210> 856

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
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<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 856
Ala His Cys Leu Gln Glu Ser Arg Glu Phe Gln Gly Lys Val Arg Ser
1 5 10 15
Gln Asp Pro Arg Glu Xaa Gly Gly Thr His Arg Leu Pro Gly His Gly
20 25 30

907

Gly Arg Pro His Leu Arg Pro Xaa Leu Leu Pro Pro Gly Ala Thr Ala
35 40 45

Ser Ala Leu Gln Leu Met Met Arg Thr Arg Ile Ala Ala Gln Val Ser
50 55 60

Arg Phe Ala Ala Ile Leu Leu Gly Leu Gly Val His Ala Met Xaa Phe
65 70 75 80

Ser Asn Xaa Xaa Pro Gly Leu Xaa Leu Lys Ser Xaa Gln Lys Trp Xaa
85 90 95

Pro Lys Xaa Arg Glu Gln Thr Met Gly Pro Thr Xaa Gly Phe Ile Pro
100 105 110

Ser Phe Leu Leu Lys Gly Pro Xaa Phe Val Gly Glu Xaa Ile Glu Pro
115 120 125

Leu Cys Asn Val Asn Glu Asn Phe Xaa Lys Ile
130 135

<210> 857

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 857

Leu	Val	Xaa	Xaa	Ser	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe
1				5				10					15		

Phe	Phe	Phe	Lys	Lys	Xaa	Lys	Lys	Lys	Lys	Xaa	Gly	Lys	Xaa
			20					25					30

<210> 858

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (19)

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<221> SITE

<222> (42)

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<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<400> 858

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Xaa	Pro	Xaa	Gln	Met	Tyr	Leu	Asn	Lys	Gln	Lys	Pro	Phe	Lys	Lys	Lys
			20					25					30		

Lys	Lys	Asn	Pro	Gly	Gly	Gly	Ala	Arg	Xaa	Pro	Ile	Pro	Pro	Lys	Xaa
		35					40					45			

Gly	Xaa	Xaa	Xaa	His	Ser	Arg	Ala	Gly	Val
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<210> 859

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911

1 5 10 15
Ile Xaa Glu Xaa Val Lys Lys Val Lys Gly Asn Ser Gly Lys Ser Xaa
 20 25 30
Pro Ala Xaa Leu Pro Lys Thr Ser Xaa Leu Ala Ser Pro Val Leu Glu
 35 40 45
Ala Pro Ala Xaa Pro Val Asp Thr Cys Leu Thr Gly Arg Gly Tyr Pro
 50 55 60
Asn Arg Gly Lys Gly
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<400> 860

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Phe Trp Lys Val Val Pro Val Val Asp Leu Val Xaa Ala Gly Gly Val
20 25 30

Val Val Xaa Leu Xaa Leu Val Ala Xaa Cys Val Leu Glu Val Xaa Ser
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 Val Asn Val Val Tyr Asp Xaa Lys Xaa Tyr Val Thr Lys Asp Phe Tyr
 20 25 30
 Ser Asp Xaa Phe Ile Ile Lys Gly His Met Arg Leu Val Glu Thr Xaa
 35 40 45
 Phe Val Val Lys Xaa Xaa Xaa Xaa Asn Phe Cys Thr
 50 55 60

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914

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Ile Met Thr Glu Arg Gly Arg Leu Arg Gly Ser Pro Asp Cys Xaa Glu			
20	25	30	
Leu Arg Thr Gln Trp Arg Phe Xaa Gly Thr Leu Arg Ser Leu Trp Gln			
35	40	45	
Ala Trp Ser Gly Ser Pro			
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1				5					10					15	

Ser	Leu	Ile	Thr	Asp	Gly	Xaa	Ile	Arg	Val	Trp	Val	Glu	Xaa	Leu	Xaa
			20					25					30		

Xaa	Lys	Lys	Gly	Cys	Phe	Trp	Ser	Xaa	Val	Phe	Phe	Xaa	Thr	Ser	Ala
		35					40					45			

Leu	Gly	Gly	Ile	Trp	Gln	Ile	Xaa	Arg	Xaa	Arg	Phe	Gly	Glu	Leu
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 Ile Arg Xaa Xaa Gln Arg Pro Lys Gln Leu Xaa Gly Arg Xaa Cys Xaa
 1 5 10 15
 Ser Xaa Asp Phe Leu Glu Pro Glu Lys Lys Xaa Glu Xaa Xaa Leu Val
 20 25 30
 Pro Xaa Xaa Met Trp Leu Cys Pro Ala Gly Pro Xaa Thr Xaa Ser Cys
 35 40 45
 Xaa Gly Xaa Phe Trp Cys Cys Val Arg Xaa Xaa Gly Thr Phe Gly Xaa
 50 55 60
 Gly Ser Pro Xaa Ile Pro Gly Thr Pro Gly Ser His Gly Leu
 65 70 75

<210> 865
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Ser Ile Asp Leu Val Asp Asn Thr Pro Ser Pro Pro Leu Arg Arg Cys
 1 5 10 15

Phe Val Ile Xaa Xaa Pro Pro Thr Pro Arg Ala Glu Pro Xaa Xaa Pro
 20 25 30

Phe Glu Glu Gly Xaa Leu Val Ile Leu Leu Cys Gly Xaa Trp Arg Asn
 35 40 45

Val Xaa Xaa Val Lys Xaa Ala Ser Xaa Leu Gly Pro Xaa Xaa Ile Gly
 50 55 60

Leu Val Lys
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<210> 866

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Ile Tyr Ala Val Val Ala Thr Asn Arg Pro Met Ile Xaa Leu Ala Gly
 1 5 10 15

Gln Val Phe Ser Arg Ala Lys Ser Pro Ser Gly Pro Leu Ala Gly Lys
 20 25 30

Ala Ser Arg Ser Ala Leu Ser Cys Gln Thr Ser Gly Arg Ile Pro Gly
 35 40 45

Arg Gln Lys Pro Leu His Leu Leu Cys Arg Thr Leu His Phe Pro Asn
 50 55 60

Pro Pro Gln Val Gly Arg Ala Glu Gly Ala Ser Ala Ser Leu Asp
 65 70 75

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Thr Gly Thr Ser Leu Met Cys Pro Cys Pro Ser Asp Asp Ser Trp Gly
 1           5           10           15

Ser Gly Gly Gly Glu Ser Pro Arg Thr Arg Ala Val Ala Phe Pro Gln
      20           25           30

Leu Leu Arg Leu Pro Ala Phe Pro Ala Glu Thr Ala Arg Pro Val Gly
      35           40           45

Trp Arg Gly Arg Pro Gly Leu Gln Thr Thr Ser Ala Ile Thr Trp Leu
      50           55           60

Xaa Val Pro Lys Gln Asp Ile His Thr Val Pro Leu Xaa Pro Ser Ser
      65           70           75           80

Ser Xaa Lys Xaa Lys Gly Lys Ala Lys Leu Lys Xaa Leu Leu Gly Pro
      85           90           95

Trp Leu Xaa Ser Phe Phe Pro Xaa Pro Xaa Ala Leu Pro Xaa Ala Arg
      100          105          110

Leu Lys Lys Thr
      115

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<210> 868

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<400> 868

Pro Ser Phe Leu Lys Pro Arg Cys Val Pro Gln Leu Gln Arg Val Gly
1 5 10 15
Met Gly Ile Thr Leu Asn Cys Gly Lys Ala Glu Trp Lys Xaa Gln Phe
20 25 30
His Arg Xaa Lys Gln Leu Leu Gly Xaa Tyr Ser Val Pro Arg Xaa Arg
35 40 45
Glu Asn Phe Leu Gly Lys Tyr Phe Val
50 55

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Pro Leu Tyr Leu Leu His Asn Glu Leu Thr Arg Asn Asn Phe Ala Arg
1 5 10 15
Arg Ala Lys Ala Lys Thr Pro Glu Thr Arg Arg Ala Thr Xaa Glu Thr
20 25 30
Ala Xaa Arg Ala His Pro Ser Met
35 40

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Val	Asn	Val	Thr	Tyr	Xaa	Gln	Phe	Ser	Leu	Phe	Glu	Tyr	Arg	Met	Xaa
1					5				10					15	

Thr	Leu	His	Xaa	Xaa	Ile	Xaa	Arg	Ala	Trp	Gly	Ile	Leu	Pro	Met	Asn
			20				25							30	

Phe	Leu	Gln	Ala	His	Leu
					35

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Ala	Lys	Leu	Phe	Gly	Lys	Val	Leu	Pro	Thr	Ala	Pro	Val	Arg	Val	Ile
1				5					10					15	

Leu	Ala	Pro	Leu	Arg	Lys	Gly	Val	Arg	Val	Ser	Val	Pro	Pro	Ala	Thr
			20					25						30	

924

Pro	Pro	Ala	Phe	Pro	Ser	Leu	Pro	Ile	Ser	Leu	Pro	Gln	Gly	Pro	Glu
		35					40					45			
Leu	Pro	Pro	Asp	Trp	Arg	Ala	Ser	Pro	Ala	Gln	Pro	Arg	His	Arg	Pro
	50					55					60				
Pro	Ser	Gly	Pro	Pro	Val	Ala	Arg	Phe	Pro	Gly	Phe	Ile	Pro	Gln	Pro
	65				70					75					80
Leu	Leu	Xaa	Pro	Phe	Ile	Pro	Ile	Ser	Tyr	Cys	Tyr	Cys	Cys	Glu	
				85				90						95	

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Ala Gln Trp Gln Cys Ser Glu Xaa Arg Phe Ser Pro Pro Val Ser Ala
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Val Thr Ala Leu Gly Phe Ser Arg Xaa Xaa Phe Leu Ile Leu
20 25 30

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<211> 76
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<213> Homo sapiens
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<400> 873
Thr Lys Ile Leu Gln Ile Val Pro His Glu Tyr Pro Pro Ser Ser Ala
1 5 10 15

925

Ile Leu Gln Ser Gly Asn Arg Trp Val Glu Ala Ala Gln Val Asn Tyr
20 25 30
Pro Ala Cys Leu Ser Ile His Ser Ser Ser Ser Ser Gln Arg Leu Lys
35 40 45
Ala Gly Pro Phe Gln Ser Ser Gln Pro Val Leu His Leu Val Pro Pro
50 55 60
Asp Pro Gly Met Glu Ala Leu Ser Pro Thr Val Trp
65 70 75

<210> 874
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Arg	Thr	Leu	Phe	Lys	Thr	Gly	Ser	Ser	Ile	Gly	Trp	Ser	Asn	Lys	Asp
1				5					10					15	

Ser	Leu	Gln	Val	Gln	Phe	Xaa	Gly	Pro	Xaa	Gly	Lys	Leu	Xaa	Thr	Asn
		20						25					30		

His	Asn	Gly	Leu	Ile	Lys	Arg	Xaa	Thr	Ile	Ile	Xaa	Leu	Gln	Arg	Leu
		35					40					45			

Leu	Tyr	Arg	Gly	Xaa	Ile	Leu	Tyr	Leu	Pro	Gln	Xaa	Ser
	50					55					60	

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<400> 875

Lys	Leu	His	Leu	Gln	Ile	Phe	Leu	Pro	Met	Asn	Asn	Val	Val	Asp	Ser
1				5					10					15	

Val	His	Ser	Phe	Ser	Leu	Ser	Leu	Ser	Leu	Ser	His	Thr	His	Thr	His
			20					25					30		

Thr	His	Thr	His	Thr	His	Arg	His	Gly	Thr	Ile	Leu	Pro	Gly	Ala	Leu
		35					40					45			

Glu	His	Ile	Pro	Gly	Gly	His	Arg	Trp	Ser	Glu	Ser	Leu	Gly	Gly	Tyr
	50					55						60			

927

Leu Ser Xaa Leu Gly Xaa Pro Asn Val Ser Trp Gly Xaa
65 70 75

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Leu Val Pro Asn Ser Ala Arg Gly Glu Arg Glu Arg Glu Arg Glu Arg
1 5 10 15

Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg
20 25 30

Glu Arg Glu Arg Glu Xaa Gly Xaa Xaa
35 40

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<400> 877

Leu	Asp	Leu	Leu	Tyr	Arg	Asp	Met	Val	Gln	Xaa	Gly	Leu	Leu	Lys	Phe
1				5					10					15	

Ile	Glu	His	Xaa	Asn	Tyr	Glu	Thr	Xaa	Thr	Phe	Tyr	Ile	Ser	Glu	Asp
			20					25					30		

Met	Gly	Xaa	Asn	Leu	Trp	Lys	Ile	Gln	Val	Ala	Gly	Xaa
		35					40					45

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<211> 107

<212> PRT

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<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

929

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 878

Arg Gly Pro Arg Ala Arg Asp Ala Ala Ala Leu Pro Pro Pro Thr Pro
 1 5 10 15

Thr Ala Pro Ser Phe Ala Ser Ser Pro Gly Ala Ser Pro Arg His Arg
 20 25 30

Arg Arg Pro Gly His Arg His Pro Pro Gln Pro Cys Pro Pro Gly Pro
 35 40 45

Cys Pro Arg Pro Pro Thr Ala Gly Cys Ser Ala Ala Arg Ala Pro Arg
 50 55 60

Ala Gly Arg Ala Xaa Arg Glu Leu Arg Asp Tyr Val Thr Arg Thr Tyr
 65 70 75 80

Ser Leu Xaa Ser Ala Leu Ser Pro Asn Xaa Ser Arg Thr Ser Thr Leu
 85 90 95

Xaa Pro Gly Arg Arg Val Cys His Ala Leu Leu
 100 105

<210> 879

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 879

Ile Leu Thr Tyr Ile Phe Thr Pro Asn Phe Thr Phe Ser Glu Ile Arg
 1 5 10 15

Ile Ser Leu Val Ala Gln Leu Thr Xaa Asn Gln Glu Ser Phe Lys Lys
 20 25 30

Met Ile Leu Lys Met Ala Gly Lys Ile Ser Phe Tyr Cys Arg Gln Phe
 35 40 45

930

Leu Asn Trp Lys Phe Gly Xaa Met His Asn Lys Ser Cys Gly
50 55 60

<210> 880

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880

Gly Thr Arg Arg Glu Arg Glu Arg Xaa Arg Glu Arg Glu Arg Glu Arg
1 5 10 15

Glu Arg Glu Arg Glu Arg Glu Xaa Xaa
20 25

<210> 881

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

931

<221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 881
 Arg Cys Ala Ile Asp Phe Phe Ser Ser Trp Leu Phe Asn Ser Pro Val
 1 5 10 15
 Ser Ile Thr Val Leu Pro His Xaa Gly Xaa Thr Glu Arg Lys Leu Ala
 20 25 30
 Phe Leu Phe Phe Leu Gly Pro Leu Pro Pro Arg Pro Leu Asn Phe Trp
 35 40 45
 Asn Pro Lys Glu Asn Xaa Xaa Gly Lys Thr Xaa Phe Xaa Gly Phe Xaa
 50 55 60
 Lys Asn Trp Glu Xaa Xaa Pro
 65 70

932

<210> 882
 <211> 127
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 882
 Ala Gln Pro Arg Thr Gly Val Asp Ser Pro Thr Ser Thr Ser Phe Leu
 1 5 10 15
 Leu Cys Ser Gln Thr Met Ser Gly Pro Pro Ser Ser Arg Ala Arg Xaa
 20 25 30
 Pro Gly Gly Ser Ser Pro Thr Pro Thr Pro Val Ser Ala Gly Thr Gly
 35 40 45
 Ser Phe Leu Arg Ala Lys Val Lys Asp Pro Leu Cys Glu Gly Ser Ala
 50 55 60
 Glu Val Gly Ser His Ala Pro Ser Arg Pro Leu Pro Ala Leu His Ser
 65 70 75 80
 Gly Arg Asn Leu Ser Phe Pro Cys Glu Lys Gly Gln Arg Val Gln Ala
 85 90 95
 Ser Gln Val Gln Arg Glu Gly Pro Gln Xaa Leu Leu Ala Ala Lys His
 100 105 110
 Ala Asp Pro Met Asp Ile Xaa Gly Lys Gly Ser Leu Pro Ala Xaa
 115 120 125

933

<210> 883
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 883
Lys Met Lys Pro Lys Met Lys Tyr Ser Thr Asn Lys Ile Ser Thr Ala
1 5 10 15
Lys Trp Lys Asn Thr Ala Ser Lys Ala Leu Cys Phe Lys Leu Gly Lys
20 25 30
Ser Gln Gln Lys Xaa Lys Glu Val Cys Pro Met Tyr Phe Met Lys Leu
35 40 45
Arg Ser Gly Leu Met Ile Lys Lys Glu Ala Trp Xaa Phe Xaa Arg Glu
50 55 60
Thr Thr
65

<210> 884
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

934

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 884

Gly Ala Met Arg Gly Asp Arg Gly Leu Trp Ser Trp Xaa Thr Leu Xaa
 1 5 10 15

<210> 885

<211> 37

<212> PRT

<213> Homo sapiens

<400> 885

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
 1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
 20 25 30

Ser Lys Ile Glu Ser
 35

<210> 886

<211> 91

<212> PRT

<213> Homo sapiens

<400> 886

Arg Arg Gly Phe Pro Gly Tyr Met Tyr Thr Asp Leu Ala Thr Ile Tyr
 1 5 10 15

Glu Arg Ala Gly Arg Val Glu Gly Arg Asn Gly Ser Ile Thr Gln Ile
 20 25 30

Pro Ile Leu Thr Met Pro Asn Asp Asp Ile Thr His Pro Ile Pro Asp
 35 40 45

Leu Thr Gly Tyr Ile Thr Glu Gly Gln Ile Tyr Val Asp Arg Gln Leu
 50 55 60

His Asn Arg Gln Ile Tyr Pro Pro Ile Asn Val Leu Pro Ser Leu Ser
 65 70 75 80

935

Thr Val Asn Glu Val Cys Tyr Trp Arg Arg Gly
 85 90

<210> 887
 <211> 733
 <212> DNA
 <213> Homo sapiens

<400> 887
 gggatccgga gcccaaattct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 aattcgaggg tgcaccgtca gtcttctctt tccccccaaa acccaaggac accctcatga 120
 tctcccgac tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
 ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
 agaaaacccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct 480
 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagAAC aactacaaga 540
 ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctacaccgtg 600
 acaagagcag gtggcagcag gggAACgtct tctcatgtct cgtgatgcat gaggctctgc 660
 acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
 gactctagag gat 733

<210> 888
 <211> 5
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 888
 Trp Ser Xaa Trp Ser
 1 5

<210> 889
 <211> 86
 <212> DNA
 <213> Homo sapiens

<400> 889
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

cccgaaatat ctgccatctc aattag

86

<210> 890

<211> 27

<212> DNA

<213> Homo sapiens

<400> 890

gcggaagct ttttgcaaag cctaggc

27

<210> 891

<211> 271

<212> DNA

<213> Homo sapiens

<400> 891

ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgcccacat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 892

<211> 32

<212> DNA

<213> Homo sapiens

<400> 892

gcgctcgagg gatgacagcg atagaacccc gg

32

<210> 893

<211> 31

<212> DNA

<213> Homo sapiens

<400> 893

gcgaagcttc gcgactcccc ggatccgcct c

31

<210> 894

<211> 12

<212> DNA

<213> Homo sapiens

<400> 894

ggggactttc cc

12

<210> 895
<211> 73
<212> DNA
<213> Homo sapiens

<400> 895
gcggcctcga ggggactttc ccgggggactt tccgggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 896
<211> 256
<212> DNA
<213> Homo sapiens

<400> 896
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtca gcaaccatag tcccgccct aactccgccc atcccgcccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggcgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256